

SWOT Data Citations

We are grateful to all who generously contributed their sea turtle data for inclusion in the maps featured throughout this volume. Data sources are cited throughout the following pages. For information about how the feature maps of hawksbill biogeography were created, please see the sidebar on p. 27.

GUIDELINES OF DATA USE AND CITATION

The nesting and satellite telemetry data that follow correspond to the maps of hawksbill biogeography on pp. 27–29. Nesting data records are numbered to correspond with their respective points on the map. To use data for research or publication, you must obtain permission from the data providers.

Hawksbill Nesting Data Citations

To save space, beach names and clutch counts have been omitted from the following citations, but additional metadata may be found online at <http://seamap.env.duke.edu/swot> or by viewing the original data source (if published). In addition, we have used the abbreviation “Spatial Database for the Wider Caribbean” to refer to Dow, W. E., and K. L. Eckert. 2007. *Sea Turtle Nesting Habitat: A Spatial Database for the Wider Caribbean Region*. WIDECAST Technical Report No. 6, Wider Caribbean Sea Turtle Conservation Network (WIDECAST) and The Nature Conservancy, Beaufort, NC. Due to space limitations, not all data records are labeled on the map; those that are not are marked with an asterisk (*).

ANGUILLA

DATA RECORD: 1

Data Sources: (A) Anguilla National Trust, Anguilla. 2012. Personal communication. In *SWOT Report—State of the World’s Sea Turtles*, vol. XV (2020). (B) Department of Fisheries and Marine Resources (DFMR), Anguilla. 2008. Ongoing nesting beach surveys. Personal communication. In *SWOT Report—State of the World’s Sea Turtles*, vol. XV (2020). (C) Godley, B. J., A. C. Broderick, L. M. Campbell, S. Ranger, and P. B. Richardson. 2004. An assessment of the status and exploitation of marine turtles in Anguilla. In *An Assessment of the Status and Exploitation of Marine Turtles in the U.K. Overseas Territories in the Wider Caribbean*, pp. 39–77. Final project report for the Department of Environment, Food, and Rural Affairs and the Commonwealth Office. (D) Gumbs, J. 2008. Hawksbill nesting in Anguilla. Personal communication. In *SWOT Report—State of the World’s Sea Turtles*, vol. IV (2009). **SWOT Contacts:** Stuart Wynne, James Gumbs, Farah Mukhida, and Janeczka Richardson

ANTIGUA AND BARBUDA

DATA RECORD: 2*

Data Sources: (A) Spatial Database for the Wider Caribbean. (B) Fuller, J. E., K. L. Eckert, and J. I. Richardson. 1992. *Sea Turtle Recovery Action Plan for Antigua and Barbuda*, p. 88. CEP Technical Report No. 16. Caribbean Environment Programme, Kingston, Jamaica. (C) Munhofen, J., and S. Ramirez. 2007. *Tagging and Nesting Research on Hawksbill Turtles (Eretmochelys imbricata) at Jumby Bay, Long Island, Antigua, West Indies*. Jumby Bay Hawksbill Project, WIDECAST. Unpublished report. **SWOT Contacts:** Peri Mason, Cheryl Appleton, James Richardson, and Tricia Lovell

ARUBA

DATA RECORD: 3

Data Sources: (A) Van der Wal, E., and R. Van der Wal. 2010. TurtugAruba (Aruban Foundation for Sea Turtle Protection and Conservation). Personal communication. In *SWOT Report—State of the World’s Sea Turtles*, vol. VI (2011). (B) Van der Wal, E., and R. Van der Wal. 2014. TurtugAruba (Aruban Foundation for Sea Turtle Protection and Conservation). SWOT Database Online 2015. (C) Van der Wal, R. 2021. Aruba. In M. A. Nalovic, S. A. Ceriani, M. M. P. B. Fuentes, J. B. Pfaller, N.E. Wildermann, A. Uribe-Martínez, and E. Cuevas (eds.), *Sea Turtles in the North Atlantic and Wider Caribbean Region: MTSG Annual Regional Report 2021*. IUCN-SSC Marine Turtle Specialist Group. (D) Spatial Database for the Wider Caribbean. **SWOT Contacts:** Richard Van der Wal and Edith Van der Wal

AUSTRALIA

DATA RECORD: 4

Data Sources: (A) Bell, I. P., J. J. Meager, T. Eguchi, et al. 2020. Twenty-eight years of decline: Nesting population demographics and trajectory of the north-east Queensland endangered hawksbill turtle (*Eretmochelys imbricata*). *Biological Conservation*, 241, 108376. (B) Broderick, D., C. Moritz, J. D. Miller, et al. 1994. Genetic studies of the hawksbill turtle (*Eretmochelys imbricata*): Evidence for multiple stocks in Australian waters. *Pacific Conservation Biology* 1: 123–131. (C) Limpus, C. J., and J. D. Miller. 2000. *Final Report for Australian Hawksbill Turtle Population Dynamics Project*. Queensland Parks and Wildlife Service and the Japan Bekko Association, Queensland, Australia. **SWOT Contacts:** Colin Limpus, Ian Bell, and Kirstin Dobbs

DATA RECORD: 5

Data Source: Hattingh, K., N. Hajnoczky, and M. Tan. 2015. *Gnaraloo Turtle Conservation Program, Gnaraloo Bay Rookery and Gnaraloo Cape Farquhar Rookery: GTCP Monitoring Procedure 2014/15*. Unpublished report, Gnaraloo Station Trust, Western Australia, www.gnaraloo.com.au. **SWOT Contact:** Karen Hattingh

DATA RECORD: 6

Data Source: Pendoley, K., L. Howitt, M. Speirs, and A. Viternbergs. 2008. Hawksbill nesting in Western Australia. In *SWOT Report—State of the World’s Sea Turtles*, vol. III (2008). **SWOT Contact:** Kellie Pendoley

BAHAMAS

DATA RECORD: 7

Data Sources: (A) Bolten, A. 2008. Hawksbill nesting in Bahamas. Personal communication. In *SWOT Report—State of the World’s Sea Turtles*, vol. III (2008). (B) Mortimer, J. A., and M. Donnelly. 2008. *Eretmochelys imbricata*. In *2008 IUCN Red List of Threatened Species*. IUCN-SSC Marine Turtle Specialist Group. (C) Spatial Database for the Wider Caribbean. **SWOT Contacts:** Karen Bjorndal, Alan Bolten, and Eleanor Phillips

BANGLADESH

DATA RECORD: 8

Data Source: Rashid, S. M. A., and M. Z. Islam. 2006. Status and conservation of marine turtles in Bangladesh. In K. Shanker and B. C. Choudhury (eds.), *Marine Turtles of the Indian Subcontinent*, pp. 200–216. Hyderabad, India: Universities Press. **SWOT Contact:** M. Zahirul Islam

BARBADOS

DATA RECORD: 9

Data Source: Horrocks, J., and C. Daniel. Personal communication. In *SWOT Report—State of the World’s Sea Turtles*, vol. XVII (2022). **SWOT Contacts:** Julia Horrocks and Carla Daniel

BELIZE

DATA RECORD: 10

Data Sources: (A) Smith, G. W. 1992. Hawksbill turtle nesting at Manatee Bar, Belize. 1991. *Marine Turtle Newsletter* 57: 1–5. (B) Searle, L. 2021. Belize. In M. A. Nalovic, S. A. Ceriani, M. M. P. B. Fuentes, J. B. Pfaller, N. E. Wildermann, A. Uribe-Martínez, and E. Cuevas (eds.), *Sea Turtles in the North Atlantic and Wider Caribbean Region: MTSG Annual Regional Report 2021*. IUCN-SSC Marine Turtle Specialist Group. (C) Spatial Database for the Wider Caribbean. **SWOT Contacts:** Isaias Majil, Janet Gibson, University of Belize, Toledo Institute for Development and Environment, South Water Caye Marine Reserve, Sapodilla Cayes Marine Reserve, Glovers Reef Marine Reserve, Gales Point Wildlife Sanctuary Management Team, Friends of Nature, Belize Audubon Society, and Bacalar Chico Marine Reserve

BONAIRE

DATA RECORD: 11

Data Sources: (A) Nava, M. 2006. *Sea Turtle Conservation Bonaire: Progress Report 2006*. Unpublished report. (B) Sea Turtle Conservation Bonaire. 2007. Progress report. Personal communication. SWOT Database Online 2010. (C) Sea Turtle Conservation Bonaire. 2010. Progress report. Personal communication. SWOT Database Online 2011. (D) Sea Turtle Conservation Bonaire. 2011. Progress report. Personal communication. SWOT Database Online 2012. (E) Sea Turtle Conservation Bonaire. 2014. Progress report. Personal communication. SWOT Database Online 2014. (F) Sea Turtle Conservation Bonaire. Personal communication. In *SWOT Report—State of the World’s Sea Turtles*, vol. XVII (2022). (G) Spatial Database for the Wider Caribbean. **SWOT Contact:** Kaj Tamar Schut

BRAZIL

DATA RECORD: 12

Data Sources: (A) Fundação Projeto TAMAR. 2022. Unpublished data from SITAMAR (Information System of Fundação Projeto Tamar). Personal communication. In *SWOT Report—State of the World’s Sea Turtles*, vol. XVII (2022). (B) Mendilaharsu, M. L., M. Á. Marcovaldi, B. Giffoni, L. Medeiros, et al. 2021. Brazil. In M. Á. Marcovaldi, J. Thomé, and

A. Fallabrino (eds.), *Sea Turtles in the Southwest Atlantic Region: MTSG Annual Regional Report 2021*. IUCN-SSC Marine Turtle Specialist Group. (C) Santos, A. S., A. P. Almeida, A. B. Santos, et al. 2011. *Plano de Ação Nacional para a Conservação das Tartarugas Marinhas*. Série Espécies Ameaçadas No. 25. Instituto Chico Mendes de Conservação da Biodiversidade, Brasília. **SWOT Contacts:** Alessandro Santos, Maria Ângela Marcovaldi, Eduardo Lima, Frederico Tognin, and Paulo Lara

CAMEROON

DATA RECORD: 13

Data Source: Cerocoma and Protomac. *Rapport des Activités*. Cameroon. Unpublished report. **SWOT Contacts:** Alain Gibudi and Jules Ngunguim

CAYMAN ISLANDS

DATA RECORD: 14

Data Source: Cayman Islands Department of Environment. 2022. Unpublished data. Personal communication. In *SWOT Report—State of the World’s Sea Turtles*, vol. XVII (2022). **SWOT Contact:** Janice Blumenthal

CHAGOS ARCHIPELAGO

DATA RECORD: 15

Data Sources: Mortimer, J. A., N. Esteban, A. N. Guzman, and G. C. Hays. 2020. Estimates of marine turtle nesting populations in the south-west Indian Ocean indicate the importance of the Chagos Archipelago. *Oryx* 54 (3): 332–343. **SWOT Contacts:** Graeme Hays, Jeanne Mortimer, and Nicole Esteban

CHINA

DATA RECORD: 16

Data Source: Chan, S. K.-F., I.-J. Cheng, T. Zhou, H.-J. Wange, et al. 2007. A comprehensive overview of the population and conservation status of sea turtles in China. *Chelonia Conservation Biology* 6 (2): 185–198. **SWOT Contact:** I-Juann Cheng

COLOMBIA

DATA RECORD: 17

Data Sources: (A) Rosado Gómez, A. J., and Parques Nacionales Naturales de Colombia. 2015. Personal communication. In *SWOT Report—State of the World’s Sea Turtles*, vol. XI (2016). (B) Monterrosa, M. C. 2012. *Community Based Sea Turtle Conservation at Mendihuaca Beach, Colombia Caribbean: Nesting Season 2012*. Fundación Colombia Marina. (C) Pinzón, C., and Tortugas Marinas de Santa Marta. 2015. Personal

communication. In *SWOT Report—State of the World's Sea Turtles*, vol. XI (2016).
SWOT Contacts: Anderson Jhovany Rosado Gómez, Carolina Monterrosa, Carlos Pinzón, and Juan Manuel Rodríguez-Baron

DATA RECORD: 18

Data Sources: (A) Spatial Database for the Wider Caribbean. (B) Ceballos-Fonseca, C. 2004. Distribución de playas de anidación y áreas de alimentación de tortugas marinas y sus amenazas en el Caribe colombiano. *Boletín de Investigaciones Marinas y Costeras* 33: 77–99.

SWOT Contacts: Claudia Ceballos, Zunilda Baldonado, and Elizabeth Taylor

DATA RECORD: 19

Data Source: Cano-Castaño, A. M. 2022. Personal communication. In *SWOT Report—State of the World's Sea Turtles*, vol. XVII (2022).

SWOT Contacts: Fundación Coriácea and Amalia María Cano-Castaño

DATA RECORD: 20

Data Sources: (A) Córdoba Becerra, A., and Parques Nacionales Naturales de Colombia. 2015. Personal communication. In *SWOT Report—State of the World's Sea Turtles*, vol. XI (2016). (B) Rodríguez-Baron, J. M., D. F. Amoroch, L. E. Angarita Jiménez, L. Barreto-Sánchez, et al. 2021. Colombia. In M. A. Nalovic, S. A. Ceriani, M. M. P. B. Fuentes, J. B. Pfaller, N. E. Wildermann, A. Uribe-Martínez, and E. Cuevas (eds.), *Sea Turtles in the North Atlantic and Wider Caribbean Region: MTSG Annual Regional Report 2021*. IUCN-SSC Marine Turtle Specialist Group.

SWOT Contact: Juan Manuel Rodríguez-Baron

DATA RECORD: 21

Data Sources: (A) Angarita Jiménez, L. E., R. Franke Ante, and Parques Nacionales Naturales de Colombia, Dirección Territorial Caribe. 2015. Personal communication. In *SWOT Report—State of the World's Sea Turtles*, vol. XI (2016). (B) Patiño-Martínez, J., and L. Quiñones. 2008. Hawksbill nesting in Colombia. Personal communication. In *SWOT Report—State of the World's Sea Turtles*, vol. III (2008). (C) Restrepo-Garzón, N., R. A. Álvarez-Rodríguez, C. Ramírez-Gallego, et al. 2021. Conservation of the hawksbill turtle (*Eretmochelys imbricata*) in Rincón del Mar, Colombia. *Boletín de Investigaciones Marinas y Costeras* 50 (2): 53–72.

SWOT Contacts: Luz Elvira Angarita Jiménez, Rebeca Franke Ante, Liliana Quiñones, and Juan Patiño Martínez

DATA RECORD: 22

Data Source: Franke Ante, R., and Parques Nacionales Naturales de Colombia, Dirección Territorial Caribe. 2015. Personal communication. In *SWOT Report—State of the World's Sea Turtles*, vol. XI (2016).

SWOT Contact: Rebeca Franke Ante

COSTA RICA

DATA RECORD: 23

Data Sources: (A) Chacón-Chaverri, D. 2008. Hawksbill nesting in Costa Rica. Personal communication. In *SWOT Report—State of the World's Sea Turtles*, vol. III (2008). (B) Chacón, D. 2014. Personal communication. SWOT Database Online 2015. (C) Spatial Database for the Wider Caribbean.

SWOT Contact: Didiher Chacón-Chaverri

DATA RECORD: 24

Data Sources: (A) Venegas-Li, R., R. Valentín-Gamazo, and A. García. 2014. Hawksbill turtle nesting at Pacuare Reserve, Limón, Costa Rica. SWOT Database Online 2015.

(B) Harrison, E. 2014. Personal communication. SWOT Database Online 2015. (C) Castro-Morales, C., and F. Campos-Rodríguez. 2006. *Final Report: Research and Protection of the Leatherback, Green and Hawksbill Turtles of the Parismina River Mouth*. Asociación Salvemos Las Tortugas de Parismina. Unpublished report.

SWOT Contacts: Claudio Quesada, Emma Harrison, Marco Ramírez-Vargas, and Vicky Taylor

DATA RECORD: 25

Data Sources: (A) Fonseca, L. 2015. Personal communication. In *SWOT Report—State of the World's Sea Turtles*, vol. X (2015). (B) Malaver, M., and D. Chacón. 2009. *Anidación de Tortugas Marinas en la Playa de Gandoca, Caribe Sur, Costa Rica: Temporada 2009*. Report. (C) Skilros, S., and S. Rodríguez Méndez. 2014. *Programa de Conservación e Investigación Colonia Anidadora de Tortugas Marinas Dermochelys coriacea, Estación Las Tortugas*. Research report. (D) WIDECAST. 2012. *Informe de Actividades de Conservación en Playas (31 de Marzo–15 de Octubre 2012)*.

SWOT Contact: Luis Gabriel Fonseca López

DATA RECORD: 26

Data Sources: (A) Arauz, R. 2009. Personal communication. SWOT Database Online 2010. (B) Arauz, R., M. S. Viejobueno, S. P. Sunyer, and I. Naranjo. 2009. *Conservación e Investigación de Tortugas Marinas en el Pacífico de Costa Rica (Punta Banco, Refugio Nacional de Vida Silvestre Caletas-Arío, San Miguel, Corozalito)*. Programa Restauración de Tortugas Marinas. (C) Chacón-Chaverri, D. 2008. Hawksbill nesting in Costa Rica. Personal communication. In *SWOT Report—State of the World's Sea Turtles*, vol. III (2008). (D) Estación Biológica Caño Palma. Personal communication. In *SWOT Report—State of the World's Sea Turtles*, vol. XVII (2022). (E) Malaver Montenegro, M., and D. Chacón-Chaverri. 2009. Personal communication. SWOT Database Online 2010. (F) Piedra, R. 2008. Hawksbill nesting on Playa Langosta, Costa Rica. Personal communication. In *SWOT Report—State of the World's Sea Turtles*, vol. III (2008). (G) Umaña Ramírez, E. 2009. *Descripción de la Actividad de Anidación y Manejo de Nidadas de Tortuga Marina en Playa Buenavista, Península de Nicoya, Costa Rica: Informe Final, Temporada 2008–2009*. (H) Ward, M., and C. Elkins. 2015. Sea turtles forever. Personal communication. SWOT Database Online 2015.

SWOT Contacts: Randall Arauz, Sandra Viejobueno, Alex Gaos, Maddie Beange, Didiher Chacón-Chaverri, Estación Biológica Caño Palma, Mariana Malaver Montenegro, Rotney Piedra Chacón, Elizabeth Vélez-Carballo, Pilar Santidrián-Tomillo, Chris Elkins, and Marc Ward

DATA RECORD: 27

Data Sources: (A) Cruz, J. C. 2022. Tortugas Preciosas de Osa. Personal communication. In *SWOT Report—State of the World's Sea Turtles*, vol. XVII (2022). (B) Piedra-Chacón, R., E. Vélez-Carballo, D. Chacón-Chaverri, P. Santidrián-Tomillo, et al. 2021. Costa Rica. In J. M. Rodríguez-Baron, S. Kelez, M. J. Lillies, A. Zavala-Norzagaray, D. Amoroch, and A. R. Gaos (eds.), *Sea Turtles in the Eastern Pacific Region: MTSG Annual Regional Report 2021*. IUCN-SSC Marine Turtle Specialist Group.

SWOT Contacts: Juan Carlos Cruz and Tortugas Preciosas de Osa

DATA RECORD: 28

Data Sources: (A) Piedra-Chacón, R., E. Vélez-Carballo, D. Chacón-Chaverri, P. Santidrián-Tomillo, et al. 2021. Costa Rica. In J. M. Rodríguez-Baron, S. Kelez, M. J. Lillies, A. Zavala-Norzagaray, D. Amoroch, and A. R. Gaos (eds.), *Sea Turtles in the Eastern Pacific Region: MTSG Annual Regional Report 2021*. IUCN-SSC Marine Turtle Specialist Group. (B) Alfaro-Shiguetto, J., J. Mangel, J. Darquea, M. Donoso, et al. 2018. Untangling the impacts of nets in the southeastern Pacific: Rapid assessment of marine turtle bycatch to set conservation priorities in small-scale fisheries. *Fisheries Research* 206: 185–192.

CÔTE D'IVOIRE

DATA RECORD: 29

Data Source: Fretey, J. 2001. *Biogeography and Conservation of Marine Turtles of the Atlantic Coast of Africa*. CMS Technical Publication No. 6., United Nations Environment Programme, Convention on Migratory Species Secretariat, Bonn, Germany.

SWOT Contact: Jacques Fretey

CUBA

DATA RECORD: 30*

Data Sources: (A) Azanza Ricardo, J., L. Márquez, D. Cobán, et al. 2010. *Informe Técnico con los Resultados de la Decimotercera Temporada del Proyecto Universitario para el Estudio y Conservación de las Tortugas Marinas en Guanahacabibes*. (B) Spatial Database for the Wider Caribbean. (C) Moncada, F., G. Nodarse, Y. Medina, et al. 2008. *Reporte Anual de Investigación y Conservación de Tortugas Marinas Realizado por el Proyecto de Tortugas Marinas del CIP-MIP*. (D) Moncada, F., J. Azanza Ricardo, G. Nodarse, et al. 2011. *Informe Anual Monitoreo Tortugas Marinas*.

SWOT Contacts: Felix Moncada, Fernando Hernández, and Julia Azanza Ricardo

CURAÇAO

DATA RECORD: 31*

Data Sources: (A) Debrat, A. O., and L. J. J. Pors. 1995. Sea turtle nesting activity on northeast coast beaches in Curaçao, 1993. *Caribbean Journal of Science* 31 (3–4): 333–338. (B) Debrat, A. O., N. Esteban, R. Le Scao, A. Caballero, and P. C. Hoetjes. 2005. New sea turtle nesting records for the Netherlands Antilles provide impetus to conservation action. *Caribbean Journal of Science* 41 (2): 334–339. (C) Spatial Database for the Wider Caribbean.

SWOT Contacts: Paul Hoetjes and Brian Leysner

DOMINICA

DATA RECORD: 32*

Data Source: Spatial Database for the Wider Caribbean.

SWOT Contacts: Rowan Byrne, Seth Stapleton, and Stephen Durand

DOMINICAN REPUBLIC

DATA RECORD: 33

Data Source: Spatial Database for the Wider Caribbean.

SWOT Contacts: INTEC, Yolanda León, and Jesús Tomás

ECUADOR

DATA RECORD: 34

Data Sources: (A) Baquero, A. 2009. Personal communication. SWOT Database Online 2010. (B) Carillo, B. 2015. *Reporte de Anidación de Tortugas Carey, Reserva Marina "El Pelado"*. Dirección Provincial de Ambiente de Santa Elena. Ministerio de Ambiente del Ecuador. (C) Miranda, C. 2015. Equilibrio Azul: Sea Turtle Monitoring Project, Ecuador. Unpublished data. (D) Miranda, C., F. Vallejo, E. Palomino, A. Sosa, et al. 2021. Ecuador. In J. M. Rodríguez-Baron, S. Kelez, M. J. Lillies, A. Zavala-Norzagaray, D. Amoroch, and A. R. Gaos (eds.), *Sea Turtles in the Eastern Pacific Region: MTSG Annual Regional Report 2021*. IUCN-SSC Marine Turtle Specialist Group. (E) Gaos, Cristina Miranda, and Felipe Vallejo

DATA RECORD: 35

Data Sources: (A) Baquero, A., J. P. Muñoz, and M. Peña. 2009. Personal communication through Equilibrio Azul. In *SWOT Report—State of the World's Sea Turtles*, vol. V (2010). (B) Herrera, M., D. Coello, and C. Flores. 2009. *Notas Preliminares: Cabo San Lorenzo, Su Importancia como Área de Reproducción de Tortugas Marinas en el Ecuador*. Unpublished report. (C) Zarate, P. 2008. Hawksbill nesting in Ecuador. Personal communication. In *SWOT Report—State of the World's Sea Turtles*, vol. III (2008).

SWOT Contacts: Dialhy Coello, Equilibrio Azul, Marco Herrera, and Patricia Zarate

EGYPT

DATA RECORD: 36*

Data Source: Hanafy, M. H., A. Salam, M. Abd El-Ghani, et al. 2003. *Marine Turtles on the Egyptian Coast of the Red Sea*. Programme for the Environment of the Red Sea and Gulf of Aden, Egypt.

EL SALVADOR

DATA RECORD: 37

Data Sources: (A) Liles, M. J., M. Vásquez, W. López, et al. 2009. Personal communication. In *SWOT Report—State of the World's Sea Turtles*, vol. V (2010). (B) Liles, M. J., A. Henríquez, and F. Medina. 2021. El Salvador. In J. M. Rodríguez-Baron, S. Kelez, M. J. Lillies, A. Zavala-Norzagaray, D. Amoroch, and A. R. Gaos (eds.), *Sea Turtles in the Eastern Pacific Region: MTSG Annual Regional Report 2021*. IUCN-SSC Marine Turtle Specialist Group.

SWOT Contacts: Alex Gaos, Michael Liles, Mauricio Vásquez, Johanna Segovia, Wilfredo López, and Georgina Mariona

ÎLES ÉPARSES

DATA RECORD: 38*

Data Source: Jean, C., S. Ciccione, J. Bourjea, M. Dalleau, and A. Carpentier. 2020. Éparses. In M. Dalleau, J. Bourjea, and R. Nel (eds.), *Sea Turtles in the East Africa and the West Indian Ocean Region: MTSG Annual Regional Report 2020*. IUCN-SSC Marine Turtle Specialist Group.

EQUATORIAL GUINEA

DATA RECORD: 39

Data Source: (A) Fretey, J. 2001. *Biogeography and Conservation of Marine Turtles of the Atlantic Coast of Africa*. CMS Technical Publication No. 6., United Nations Environment Programme, Convention on Migratory Species Secretariat, Bonn, Germany. (B) Hearn, G. W., H. Rader, and J. L. Bradys. 2006. Leatherback nesting in Bioko Island, Equatorial Guinea. Personal communication. In *SWOT Report—State of the World's Sea Turtles*, vol. I (2006). (C) Honarvar, S., D. B. Fitzgerald, C. L. Weitzman, E. M. Sinclair, et al. 2016. Assessment of important marine turtle nesting populations on the southern coast of Bioko Island, Equatorial Guinea. *Chelonian Conservation and Biology* 15 (1): 79–89. (D) Rader, H., S. Nsue Esono, J. Bradys, et al. 2006. Leatherback nesting in Bioko Island, Equatorial Guinea. In *SWOT Report—State of the World's Sea Turtles*, vol. II (2007). (E) Tomás, J., B. J. Godley, J. Castroviejo, et al. 2010. Bioko: Critically important nesting habitat for sea turtles of West Africa. *Biodiversity and Conservation* 19: 2699–2714.

SWOT Contacts: Jacques Fretey, Gail W. Hearn, and Shaya Honarvar

ERITREA

DATA RECORD: 40

Data Sources: (A) Goitom, M. 2008. Ministry of Fisheries. Personal communication. SWOT Database Online 2010. (B) Rees, A. 2021. Eritrea. In A. D. Phillott and A. F. Rees (eds.), *Sea Turtles in the Middle East and South Asia Region: MTSG Annual Regional Report 2021*. IUCN-SSC Marine Turtle Specialist Group.

SWOT Contact: Mahta Goitom

FIIJI

DATA RECORD: 41

Data Sources: (A) Prakash, S. S., T. M. Tuiono, S. Clay, et al. 2020. Temporal and geographic distribution of hawksbill turtle (*Eretmochelys imbricata*) nests in Fiji, South Pacific. *Testudo* 9 (2): 12–23. (B) Bell, L. 2013. Community Turtle Conservation and Monitoring Network. Community Ecosystem Partnership Fund and Conservation International Pacific Islands Program, Apia, Samoa. (C) Guinea, M. 1993. *Sea Turtles of Fiji*. South Pacific Regional Environmental Programme, Apia, Samoa.

SWOT Contacts: Aisake Batibasaga and Neema Nand

FRENCH GUIANA

DATA RECORD: 42

Data Sources: (A) Kelle, L. 2008. Hawksbill nesting in French Guiana. Personal communication. In *SWOT Report—State of the World's Sea Turtles*, vol. III (2008). (B) Kwata NGO. 2022. Personal communication. In *SWOT Report—State of the World's Sea Turtles*, vol. XVII (2022). (C) Réserve Naturelle de

l'Amama. 2022. Personal communication. In *SWOT Report—State of the World's Sea Turtles*, vol. XVII (2022).

SWOT Contacts: Laurent Kelle, Kwata NGO, and Réserve Naturelle de l'Amama

FRENCH SOUTHERN TERRITORIES

DATA RECORD: 43

Data Sources: (A) Bourjea, J., and S. Ciccione. 2008. Hawksbill nesting in French overseas territories. Personal communication. In *SWOT Report—State of the World's Sea Turtles*, vol. III (2008). (B) Laurent-Stepher, M., S. Ciccione, and J. Bourjea. 2010. Monitoring of marine turtles' reproductive activities in Juan de Nova, Eparses Islands, South Western Indian Ocean, based on tracks count and width. *Indian Ocean Turtle Newsletter* 11: 18–24. **SWOT Contacts:** Claire Jean, Stéphane Ciccione, Jérôme Bourjea, and Mayeul Dalleaud

GABON

DATA RECORD: 44

Data Sources: (A) Girard, A., M. C. Godgenger, A. Gibudi, J. Fretey, et al. 2016. Marine turtles nesting activity assessment and trend along the Central African Atlantic coast for the period of 1999–2008. *International Journal of Marine Science and Ocean Technology* 3 (3): 21–32. (B) Verhage, B., E. B. Moundjim, and S. R. Livingstone. 2006. *Four Years of Marine Turtle Monitoring in the Gamba Complex of Protected Areas, Gabon, Central Africa, 2002–2006*. World Wildlife Fund—Gabon. **SWOT Contacts:** Samuel Mbungu Ndamba, Aimee Leslie, and Bas Verhage

GRENADA

DATA RECORD: 45*

Data Sources: (A) Spatial Database for the Wider Caribbean. (B) Fastigi, M., and YWF-Kido Foundation. 2008. Sea turtle nesting on Carriacou Island, Grenada. Personal communication. SWOT Database Online 2009. (C) Fastigi, M., YWF-Kido Foundation. 2010. Sea turtle nesting on Carriacou Island, Grenada. Personal communication. SWOT Database Online 2011. (D) Lloyd, C., and Ocean Spirits. 2009. Personal communication. In *SWOT Report—State of the World's Sea Turtles*, vol. V (2010). **SWOT Contacts:** Rebecca S. King, Carl Lloyd, Gregg Moore, Kate Charles, and Marina Fastigi

GUADELOUPE

DATA RECORD: 46

Data Sources: (A) Delcroix, E. 2007. *Rapport d'Activité Gestion du Réseau Tortues Marines de Guadeloupe 2007*. Unpublished report. (B) Delcroix, E., et al. 2010. Unpublished data. Personal communication. In *SWOT Report—State of the World's Sea Turtles*, vol. VI (2011). (C) Spatial Database for the Wider Caribbean. (D) Girard, A., and M. Girondot. 2016. *Analyse des Données d'Activités de ponte des Tortues Marines en Guadeloupe (Incluant ses Dépendances et Saint-Martin): Période 2004–2014*. Office National de la Chasse. **SWOT Contacts:** Alain Goyeau, Alain Saint-Auret, Alexandra Le Moal, Blandine Guillemot, Caroline Cestor, Caroline Rinaldi, Cécile Lallemand, Eric Delcroix, Fabien Créantor, Fortuné Guiougou, Franciane Le Quellec, Gérard Portecop Fortuné Guiougou, Guilhem Santelli, Jean Boyer, Jérôme Flereau, Julien Chalifour, Laurent Malglaive, Moise Chasselas, Monique Charrieau, Natacha Lamy, Olivier Raynaud, Olivier Tartaglino, Pauline Malterre, Philippe de Proft, Renato Rinaldi, René Dumont, Sandrine Bonotto, Sebastien Rives, Simone Mege, Sophie Bedel, Sophie Guilloux-Glorieux, Thierry Guthmuller, Xavier Delloue, and Caroline Cremades

GUATEMALA

DATA RECORD: 47

Data Sources: (A) Spatial Database for the Wider Caribbean. (B) Fundación Mario Dary Rivera, Consejo Nacional de Áreas Protegidas, and The Nature Conservancy. 2006. *Plan de Conservación de Área, 2007–2011: Refugio de*

Vida Silvestre Punta de Manabique. Fundary-Proarca-TNC.

SWOT Contacts: Anabella Barrios and Ana Beatriz

GUINEA-BISSAU

DATA RECORD: 48

Data Sources: (A) Barbosa, C. 2022. Personal communication. In *SWOT Report—State of the World's Sea Turtles*, vol. XVII (2022). (B) Barbosa, C., A. C. Broderick, and P. Catry. 1998. Marine turtles in the Orango National Park (Bijagós Archipelago, Guinea-Bissau). *Marine Turtle Newsletter* 81: 6–7. (C) Catry, P., C. Barbosa, B. Indjai, A. Almeida, et al. 2002. First census of the green turtle at Poilão, Bijagós Archipelago, Guinea-Bissau: The most important nesting colony on the Atlantic coast of Africa. *Oryx*, 36 (4): 400–403. (D) Fretey, J. 2001. *Biogeography and Conservation of Marine Turtles of the Atlantic Coast of Africa*. CMS Technical Publication No. 6. United Nations Environment Programme, Convention on Migratory Species Secretariat, Bonn, Germany. **SWOT Contacts:** Fernando Miguel Madeira, Ana Rita Patrício, Aissa Regalla, Castro Barbosa, Rui Rebelo, and Paulo Catry

GUYANA

DATA RECORD: 49*

Data Sources: (A) de Freitas, R., and P. Pritchard. 2011. *Aspect of Marine Turtle Nesting in Guyana, 2011*. World Wildlife Fund Technical Report, Guianas Forest and Environment Conservation Project (GFCEP). (B) Kalamandeen, M., R. de Freitas, K. Stewart, et al. 2006. *Aspects of Marine Turtle Nesting in Guyana, 2006*. World Wildlife Fund Technical Report, GFCEP. (C) Saheed, D. 2010. Personal communication. SWOT Database Online 2011. **SWOT Contacts:** Romeo de Freitas, Michelle Kalamandeen, and Dominique Saheed

HAITI

DATA RECORD: 50*

Data Sources: (A) Chacón, D., C. Quesada, and C. Drews. 2006. Hawksbill turtles of the Caribbean. (B) Spatial Database for the Wider Caribbean. (C) Kavanagh, R. 1984. The national report: Haiti. In P. Bacon, F. Berry, K. Bjørndal, H. Hirth, L. Ogren, and M. Weberer (eds.), *Proceedings of the Western Atlantic Sea Turtle Symposium, Volume 3*. Miami, FL: University of Miami Press. (D) Ottenwalder, J. A. 1987. *Ad Hoc National Report to WATS II for Haiti*. Presented to the Second Western Atlantic Turtle Symposium, WATS2 044, September 1987, Mayagüez, Puerto Rico. **SWOT Contact:** Jean Wiener

HONDURAS

DATA RECORD: 51

Data Sources: (A) Aronne, M. 2000. *Anidación Semiarificial para la Conservación de Tortuga Marina Carey (Eretmochelys imbricata) en el Área Protegida de Cayos Cochinos, del 18 Junio al 30 Octubre 2000*. Fundación Hondureña para los Arrecifes Coralinos. (B) Spatial Database for the Wider Caribbean. (C) Macias, F. S. 2006. *Honduras Second Annual Report*. Inter-American Convention for the Protection and Conservation of Sea Turtles and Directorate of Biodiversity/SERNA. **SWOT Contacts:** Carlos Molinero, Gerson Martínez, Lidia Salinas, Rafael Gutiérrez, Marcio Aronne, Michelle Fernández, and Fundación Calentura y Guaimoreto

INDIA

DATA RECORD: 52

Data Sources: (A) Andrews, H., S. Krishnan, and P. Biswas. 2006. *The Status and Distribution of Marine Turtles around the Andaman and Nicobar Archipelago*. Andaman and Nicobar Islands Environmental Team, Center for Herpetology, Madras Crocodile Bank Trust, Andaman and Nicobar Islands, India. (B) Bhaskar, S. 1993. *The Status and Ecology of Sea Turtles in the Andaman and Nicobar Islands*. Publication No. ST 1/93. Centre for Herpetology, Madras Crocodile Bank Trust, Tamil Nadu, India. (C) Tripathy, B.,

K. Shanker, and B. C. Choudhury. 2006. Sea turtles and their habitats in the Lakshadweep Islands. In K. Shanker and B. C. Choudhury, *Marine Turtles of the Indian Subcontinent*, 119–136. Hyderabad, India: Universities Press. **SWOT Contacts:** Harry Andrews and Manish Chandi

INDONESIA

DATA RECORD: 53

Data Sources: (A) Inoguchi, E. 2022. Everlasting nature of Asia. Personal communication. In *SWOT Report—State of the World's Sea Turtles*, vol. XVII (2022). (B) Everlasting nature of Asia. 2011. Personal communication. SWOT Database Online 2012. **SWOT Contacts:** Emi Inoguchi and Hiroyuki Suganuma

DATA RECORD: 54

Data Sources: (A) Muurmans, M., and Yayasan Pulau Banyak, Aceh, Indonesia. 2009. Personal communication. SWOT Database Online 2010. (B) Putra, K. S. 2005. *Brief Overview of Turtle Conservation in Indonesia*. Unpublished report. **SWOT Contacts:** Maggie Muurmans and Ketut Sarjana Putra

IRAN, ISLAMIC REPUBLIC OF

DATA RECORD: 55

Data Sources: (A) Mobaraki, A. 2021. Iran. In A. D. Phillott and A. F. Rees (eds.), *Sea Turtles in the Middle East and South Asia Region: MTSG Annual Regional Report 2021*. IUCN-SSC Marine Turtle Specialist Group. (B) Mobaraki, A., and A. M. Elmi. 2005. First sea turtle tagging program in Iran. *Marine Turtle Newsletter* 110: 6–7.

JAMAICA

DATA RECORD: 56*

Data Sources: (A) Spatial Database for the Wider Caribbean. (B) Harker, T. 2006. *Status and Conservation of Sea Turtles in Jamaica*. Unpublished report. (C) Haynes-Sutton, A., R. Kerr Bjorkland, and A. Donaldson. In K. L. Eckert (ed.), *Sea Turtle Recovery Action Plan for Jamaica*. CEP Technical Report No. 54, Caribbean Environment Programme, Kingston, Jamaica. (D) Tennant, M. 2008. Hawksbill nesting on Gibraltar Beach, Jamaica. In *SWOT Report—State of the World's Sea Turtles*, vol. III (2008). **SWOT Contacts:** Andrea Donaldson, Rhema Kerr Bjorkland, Shakira Azan, and The Nature Conservancy

JAPAN

DATA RECORD: 57

Data Source: Okuyama, J., H. Ishii, S. Tanizaki, T. Suzuki, et al. 2020. Quarter-century (1993–2018) nesting trends in the peripheral populations of three sea turtle species at Ishigakijima Island, Japan. *Chelonian Conservation and Biology* 19 (1): 101–110. **SWOT Contact:** Junichi Okuyama

KENYA

DATA RECORD: 58

Data Source: Izava, M., and WWF Kenya. 2016. Personal communication. In *SWOT Report—State of the World's Sea Turtles*, vol. XII (2017). **SWOT Contact:** Mike Olendo

KUWAIT

DATA RECORD: 59

Data Sources: (A) Rees, A. F. 2022. Personal communication. In *SWOT Report—State of the World's Sea Turtles*, vol. XVII (2022). (B) Rees, A. F., N. Papatthanasopoulou, and B. J. Godley. 2019. Tracking hawksbills in Kuwait: Contributions to regional behavioral insights. *Chelonian Conservation and Biology* 18 (1): 86–90. **SWOT Contact:** Alan Rees

LIBERIA

DATA RECORD: 60

Data Source: Save My Future Foundation (SAMFU). 2008. Hawksbill nesting in Liberia. Personal communication. In *SWOT Report—State of the World's Sea Turtles*, vol. III (2008). **SWOT Contact:** Alex Peal

MADAGASCAR

DATA RECORD: 61

Data Source: Bourjea, J., S. Ciccione, and R. Rantsimbazafy. 2006. Marine turtle survey in Nosy Iranja Kely, northwestern Madagascar. *Western Indian Ocean Journal of Marine Science* 5 (2): 209–212. **SWOT Contacts:** Claire Jean, Stéphane Ciccione, Jérôme Bourjea, Mayeul Dalleau, and Ignace Vandry

MALAYSIA

DATA RECORD: 62

Data Source: Fisher, C., and I. Roslan. 2013. *Nesting Population of Sea Turtles on Tioman Island, Malaysia*. Juara Turtle Project. Unpublished report. **SWOT Contact:** Charles Fisher

DATA RECORD: 63

Data Source: (A) Bali, J., and Sarawak Forestry Corporation. 2008. Hawksbill nesting in Sarawak, Malaysia. In *SWOT Report—State of the World's Sea Turtles*, vol. III (2008). (B) Bin Rusli, M. U. 2022. Personal communication. In *SWOT Report—State of the World's Sea Turtles*, vol. XVII (2022). (C) Marine Research Unit, Sabah Parks. 2007. *Turtle Islands Park and Sipadan Island Turtle Research Report*. Unpublished report. (D) Pilcher, N. 2022. Personal communication. In *SWOT Report—State of the World's Sea Turtles*, vol. XVII (2022). (E) Sabah Department of Wildlife. 2008. Hawksbill nesting in Sabah, Malaysia. In *SWOT Report—State of the World's Sea Turtles*, vol. III (2008). (F) Wagiman, S., and Malaysia Fisheries Department. 2008. Hawksbill nesting in Johor, Malacca, Pahang and Terengganu, Malaysia. In *SWOT Report—State of the World's Sea Turtles*, vol. III (2008). **SWOT Contacts:** Eng-Heng Chan, Sukarno Wagiman, Fazrullah Rizally, James Bali, Nicolas Pilcher, and Mohd Uzair Bin Rusli

MALDIVES

DATA RECORD: 64

Data Source: Zahir, H. 2008. Hawksbill nesting in Maldives. Personal communication. In *SWOT Report—State of the World's Sea Turtles*, vol. III (2008). **SWOT Contact:** Hussein Zahir

DATA RECORD: 65

Data Source: Olive Ridley Project. 2022. Personal communication. In *SWOT Report—State of the World's Sea Turtles*, vol. XVII (2022). **SWOT Contact:** Olive Ridley Project

MARTINIQUE

DATA RECORD: 66

Data Sources: (A) Spatial Database for the Wider Caribbean. (B) KAWAN (Marine Turtle Network of Martinique). 2014. Hawksbill nesting in Martinique. SWOT Database Online 2014. **SWOT Contacts:** Jean-Claude Nicolas, Séverine Raigné, Claire Cayol, and Cécile Gaspar

DATA RECORD: 67

Data Sources: (A) National Office of Wildlife and Hunting. 2008. Unpublished data from the 2006 nesting season. Personal communication. In *SWOT Report—State of the World's Sea Turtles*, vol. III (2008). (B) National Wildlife and Hunting Agency and KAWAN. 2009. Unpublished data from the 2008 nesting season. Personal communication via R. Le Scao. In *SWOT Report—State of the World's Sea Turtles*, vol. V (2010). (C) KAWAN. 2008. Hawksbill nesting in Martinique. Personal communication. In *SWOT Report—State of the World's Sea Turtles*, vol. III (2008). (D) NGO SEPANMAR (Society for the Study,

Protection, and Development of Nature in Martinique). *Nesting Season 2006: Parts 1, 2, and 3*. Technical report. Fort de France, Martinique: Ministry of Ecology and Sustainable Development.
SWOT Contact: Rozenn Le Scao

MAYOTTE

DATA RECORD: 68

Data Sources: (A) Bourjea, J., and S. Ciccione. 2008. Hawksbill nesting in French overseas territories. Personal communication. In *SWOT Report—State of the World's Sea Turtles*, vol. III (2008). (B) Quillard, M. 2011. Les tortues marines à Mayotte: Bilan des actions de protection et perspectives. *Bulletin de la Société Herpétologique de France*. 139–140: 113–129. (C) Philippe, J.-S., J. Bourjea, S. Ciccione, et al. 2014. *Plan National d'Actions en Faveur des Tortues Marines des Territoires Français de l'Océan Indien: La Réunion, Mayotte et Îles Éparses (2015–2020)*. Ministry of Ecology, Sustainable Development, and Energy.

SWOT Contacts: Jérôme Bourjea, Stéphane Ciccione, Mireille Quillard, and Katia Ballorain

MEXICO

DATA RECORD: 69

Data Source: (A) Arias, R. 2006. *Informe de Resultados de la Temporada 2006*. Presented at a meeting of the Centros Indígenas para la Protección de la Tortuga Marina en Veracruz, Comisión Nacional para el Desarrollo de los Pueblos Indígenas, and Centro de Desarrollo Indigenista, Acayucan, Veracruz, November 25. (B) Bravo, G., P. R. Martínez, and R. C. Martínez. 2007. *Breve Reseña y Resultados de la Protección y Conservación de las Tortugas Marinas en el Estado de Veracruz, 2003–2006*. Secretaría del Medio Ambiente y Recursos Naturales (SEMARNAT), Comisión Nacional de Áreas Naturales Protegidas (CONANP), and Parque Nacional Sistema Arrecifal Veracruzano (PNSAV). (C) Spatial Database for the Wider Caribbean. (D) Erosa, S. A. 2002. *Informe de Resultados del Programa de Protección de Tortugas Marinas en la Zona Hotelera de Cancún, Temporada 2002*. Benito Juárez, Quintana Roo: Dirección General de Ecología. (E) Erosa, S. A. 2003. *Informe de Resultados del Programa de Protección de Tortugas Marinas en la Zona Hotelera de Cancún, Temporada 2002*. Benito Juárez, Quintana Roo: Dirección General de Ecología. (F) Erosa, S. A., and J. Juárez G. 1996. *Primer Registro de Anidación de Dermochelys coriacea en la Zona Hotelera de Cancún: Mem. del XIII Encuentro Interuniversitario para la Conservación de las Tortugas Marinas, Jalapa, Veracruz*. (G) González, P., and G. A. González. 2003. *Proyecto de Protección y Conservación de las Tortugas Marinas*. H. Ayuntamiento Municipal de Tuxpan, Veracruz, and Dirección de Ecología. (H) González, P., and G. A. González. 2005. *Resultados Parciales de la Temporada de Anidación de las Tortugas Marinas del Período de Abril a Julio de 2005 en el Centro de Protección y Conservación de las Tortugas Marinas en la Playa de Ejido Barra de Galindo, Tuxpan, Veracruz*. Consejo Estatal de Protección al Ambiente de Gobierno del Estado and Facultad de Ciencias Biológicas y Agropecuarias, Universidad Veracruzana. (I) Guzman, V. 2006. *Informe Técnico Final del Programa de Conservación de Tortugas Marinas de Campeche, México en 2005*. Dirección General de Manejo para la Conservación. (J) Guzman, V., and Área de Protección de Flora y Fauna Laguna de Términos, CONANP. 2010. Personal communication. In *SWOT Report—State of the World's Sea Turtles*, vol. VI (2011). (K) Jaramillo, A. P. 2006. *Mexico: Second Annual Report for the Inter-American Convention for the Protection and Conservation of Sea Turtles*. National Fisheries and Aquaculture Commission, SEMARNAT. (L) Sedere. 2003. *Proyecto del Centro Veracruzano para la Investigación y Conservación de la Tortuga Marina*. Gobierno del Estado de Veracruz, Sedere-CEMA, and Pemex—Gerencia Regional de Seguridad Industrial y Protección Ambiental, Xalapa, Veracruz.

SWOT Contacts: Adriana Laura Sarti Martínez,

Alberto Abreu Grobois, Augusto Segoviam, SEMARNAT, René Kantún, Higher Institute of Marine Economics (ISEMAR), Roberto Herrera-Pavón, Vicente Guzman, Enlaces con tu Entorno, Ría Lagartos Reserva de la Biosfera, CONANP, and EcoSur

DATA RECORD: 70

Data Sources: (A) Berzunza-Chío, J., and Secretaría de Medio Ambiente, Biodiversidad, Cambio Climático y Energía (SEMABICC). 2015–22. Personal communication. In *SWOT Report—State of the World's Sea Turtles*, vol. XVII (2022). (B) Cosgalla, J., and A. C. Quelonios. 2015–20. Personal communication via SEMABICC. In *SWOT Report—State of the World's Sea Turtles*, vol. XVII (2022). (C) Díaz, A., and Universidad Autónoma del Carmen. 2015–22. Personal communication via SEMABICC. In *SWOT Report—State of the World's Sea Turtles*, vol. XVII (2022). (D) Gongora, L. A. 2015–22. Personal communication via SEMABICC. In *SWOT Report—State of the World's Sea Turtles*, vol. XVII (2022). (E) Guzmán, H. V. 2022. *Informe Técnico 2021 del Programa de Conservación de Tortugas Marinas en Laguna de Términos, Campeche, México*. (F) Medina, M., and Enlaces con tu Entorno A.C. 2015–22. Personal communication via SEMABICC. In *SWOT Report—State of the World's Sea Turtles*, vol. XVII (2022).

SWOT Contacts: Pedro García, Laura Sarti, Vicente Guzman, Silvia Cruz, Javier Gómez, Rosario Velueta, Daniel Velueta, and Eduardo Pastrana

DATA RECORD: 71*

Data Source: Pronatura Península de Yucatán, A.C. 2011. Personal communication. SWOT Database Online 2013.

SWOT Contact: Eduardo Cuevas

DATA RECORD: 72

Data Sources: (A) Delgado-Trejo, C., C. Bedolla-Ochoa, L. A. Sarti Martínez, C. Hart, et al. 2021. Mexico. In J. M. Rodríguez-Baron, S. Kelez, M. J. Lillies, A. Zavala-Norzagary, D. Amorcho, and A. R. Gaos (eds.), *Sea Turtles in the Eastern Pacific Region: MTSG Annual Regional Report 2021*. IUCN-SSC Marine Turtle Specialist Group. (B) Fishermen/ex-guards from Islas Marias Penitentiary. 2009. Personal communication. SWOT Database Online 2010.

SWOT Contact: Alex Gaos

MICRONESIA, FEDERATED STATES OF

DATA RECORD: 73

Data Source: Cruce-Johnson, J. 2006. *Yap State Sea Turtle Conservation Program, Ulithi Tagging Project, Gielop and Iar Islands, Summer 2005*. Marine Resources Management Division Report. Yap State, Federated States of Micronesia.

SWOT Contacts: Jennifer Cruce and Wayne Sentman

MONTSERRAT

DATA RECORD: 74*

Data Sources: (A) Spatial Database for the Wider Caribbean. (B) Martin, C. S., J. Jeffers, and B. J. Godley. 2005. The status of marine turtles in Montserrat (eastern Caribbean). *Animal Biodiversity and Conservation* 28 (2): 159–168.

SWOT Contact: John Jeffers

MOZAMBIQUE

DATA RECORD: 75

Data Sources: (A) Costa, A. 2007. *Report of Marine Turtle Conservation in Quirimbas National Park, Cabo Delgado*. Marine Programme, WWF Mozambique, Maputo. (B) Costa, A., and A. Mate. 2009. Personal communication. SWOT Database Online 2010. (C) *Vamizi Island Conservation and Community Report, 2014–2015*. Pemba, Mozambique.

SWOT Contacts: Alice Costa, Alfredo Mate, and Isabel Marques da Silva

NICARAGUA

DATA RECORD: 76

Data Sources: (A) Altamirano, E., and Y. Rodríguez. 2008–09. *Informe de Proyecto de Conservación de Tortugas Marinas en la RN Isla Juan Venado, Leon-Nicaragua*. (B) Campbell, C. L., C. J. Lagueux, and V. Huertas. 2007. *2006 Pearl Cays Hawksbill Conservation Project, Nicaragua: Final Report*. Wildlife Conservation Society. (C) Delegación MARENA-Rivas. 2009. *Informe de Monitoreo de Tortuga Pasmala (Lepidochelys olivacea) en el RVS La Flor (Departamento de Rivas, Nicaragua)*. Unpublished report, 2008–2009 season. (D) Gaos, A. 2009. Personal communication. SWOT Database Online 2010. (E) Manzanares, L. 2009. Personal communication. SWOT Database Online 2010. (F) Muurmans, M., and Society for Environmental Exploration/Frontier Nicaragua—Darwin Initiative. 2009. Personal communication. SWOT Database Online 2010. (G) Otterstrom, S. 2009. Personal communication. SWOT Database Online 2010. (H) Torres, P., M. Chavez, and L. Salmerón. 2009. *Informe Proyecto de Conservación de Tortuga Tora (Dermochelys coriacea) en Playa Salamina, Villa El Carmen (Departamento de Managua), Nicaragua*. 2008–2009 season. **SWOT Contacts:** Alex Gaos, Velkiss Gadea, Edgar Herrera, Perla Torres Gago, Cynthia Lagueux, and Cathi Campbell

OMAN

DATA RECORD: 77

Data Sources: (A) Marine Fauna of Oman and A. Rees. 2010. Personal communication. SWOT Database Online 2010. (B) Rees, A. 2008. Hawksbill nesting in Oman. In *SWOT Report—State of the World's Sea Turtles*, vol. III (2008).

SWOT Contacts: Alan Rees

PALAU

DATA RECORD: 78

Data Source: Klain, S., and J. Eberdong. 2007. *Palau Marine Turtle Conservation and Monitoring Program, 2005–2006: Report to National Oceanic and Atmospheric Administration (NOAA)*. Unpublished report.

SWOT Contacts: Sarah Klain and Joshua Eberdong

PANAMA

DATA RECORD: 79

Data Sources: (A) Meylan, A.B., P.A. Meylan, and C. Ordoñez. 2013. Marine turtles of Bocas del Toro Province and the Comarca Ngöbe-Buglé, Republic of Panama. *Chelonian Conservation and Biology* 12: 17–33. (B) Eckert, K. L., and A. E. Eckert. 2019. *An Atlas of Sea Turtle Nesting Habitat for the Wider Caribbean Region*. Revised Edition. WIDECAS Technical Report No. 19. Godfrey, Illinois.

SWOT Contacts: Emma Harrison, Anne Meylan, Cristina Ordoñez, and the Sea Turtle Conservancy

DATA RECORD: 80

Data Source: Patiño-Martínez, J., and L. Quiñones. 2008. Hawksbill nesting in Panama. Personal communication. In *SWOT Report—State of the World's Sea Turtles*, vol. III (2008).

SWOT Contact: Juan Patiño-Martínez

DATA RECORD: 81*

Data Source: Rodríguez, J., A. Ruíz, M. Abrego, et al. 2009. Personal communication. In *SWOT Report—State of the World's Sea Turtles*, vol. V (2010). **SWOT Contacts:** Argelis Ruíz, Carlos Peralta, Harold Chacón, Jacinto Rodríguez, and Marino Abrego

PAPUA NEW GUINEA

DATA RECORD: 82

Data Source: Horrocks, J., B. Krueger, and A. Harewood. 2008. Unpublished data.

SWOT Contact: Barry Krueger

PHILIPPINES

DATA RECORD: 83

Data Sources: (A) Cruz, R. 2008. Hawksbill nesting in the Philippines. Personal communication. In *SWOT Report—State of the World's Sea Turtles*, vol. III (2008). (B) Torres, D., E. Santa Cruz, L. I. Mansanero, et al. 2004. Conservation of a remnant Hawksbill nesting habitat in Punta Dumlalag, Brangay Matina Aplaya, Davao City, Philippines.

SWOT Contacts: Renato Cruz, Romeo Trono, and Angie Viloria

PUERTO RICO

DATA RECORD: 84

Data Sources: (A) Spatial Database for the Wider Caribbean. (B) Proyecto Carey. Personal communication. In *SWOT Report—State of the World's Sea Turtles*, vol. XVII (2022).

SWOT Contact: Carlos Díez

DATA RECORD: 85

Data Sources: (A) Díez, C. 2012. Internal report submitted to Puerto Rico Department of Natural and Environmental Resources. (B) Montero, L. 2006. *Proyecto de Conservación de Tortugas Marinas Humacao, Yabucoa y Maunabo, Puerto Rico, Temporada 2006*. Puerto Rico Department of Natural and Environmental Resources. (C) Puerto Rico Departamento de Recursos Naturales y Ambientales. 2012. Unpublished database for nesting of sea turtles in Puerto Rico.

SWOT Contacts: Carlos Díez and Robert van Dam

QATAR

DATA RECORD: 86

Data Sources: (A) Ras Laffan Industrial City. Unpublished data. SWOT Database Online 2009. (B) Rees, A. F., and M. Chatting. 2021. Qatar. In A. D. Phillott and A. F. Rees (eds.), *Sea Turtles in the Middle East and South Asia Region: MTSG Annual Regional Report 2021*. IUCN-SSC Marine Turtle Specialist Group.

SWOT Contact: Nicolas Pilcher

SAINT KITTS AND NEVIS

DATA RECORD: 87*

Data Sources: (A) Spatial Database for the Wider Caribbean. (B) Pemberton, E., and Nevis Department of Fisheries. 2008. Hawksbill nesting in Nevis. In *SWOT Report—State of the World's Sea Turtles*, vol. III (2008). (C) St. Kitts Sea Turtle Monitoring Network and Ross University School of Veterinary Medicine. 2008. Hawksbill nesting in St. Kitts. In *SWOT Report—State of the World's Sea Turtles*, vol. III (2008). (D) Stewart, K., and St. Kitts Sea Turtle Monitoring Network. 2006. Leatherback nesting in St. Kitts. In *SWOT Report—State of the World's Sea Turtles*, vol. I (2006).

SWOT Contacts: Kate Orchard, Ralph Wilkins, Kimberly Stewart, and Emile Pemberton

SAINT LUCIA

DATA RECORD: 88*

Data Sources: (A) Bacon, P. R. 1981. The status of sea turtle stocks management in the western central Atlantic. Western Central Atlantic Fishery Commission. (B) d'Auvergne, C., and K. L. Eckert. 1993. *Sea Turtle Recovery Action Plan for St. Lucia*. CEP Technical Report No. 26, Caribbean Environment Programme, United Nations Environment Programme, Kingston, Jamaica. (C) Spatial Database for the Wider Caribbean. (D) Murray, P. A. 1984. National report for the country of Saint Lucia. In P. Bacon, F. Berry, K. Bjørndal, H. Hirth, L. Ogren, and M. Weberer (eds.), *Proceedings of the Western Atlantic Sea Turtle Symposium, Volume 3*, pp. 370–380. Miami, FL: University of Miami Press.

SWOT Contact: Dawn Pierre-Nathaniel

DATA RECORD: 89*

Data Source: Durrell Wildlife Conservation Trust and St. Lucia Forestry Department, Ministry of Agriculture. 2008. Hawksbill nesting in St. Lucia. In *SWOT Report—State of the World's Sea Turtles*, vol. III (2008).

SWOT Contact: Matthew Morton

SAINT MARTIN

DATA RECORD: 90

Data Sources: (A) Réserve Naturelle Nationale (RNN) de Saint-Martin. 2010. *Rapport 2009 Suivis des Pontes de Tortues Marines et des Tortues Marines en Alimentation*. (B) RNN de Saint-Martin. 2011. *Rapport 2010 Suivis des Pontes de Tortues Marines et des Tortues Marines en Alimentation*. (C) RNN de Saint-Martin. 2012. *Suivi des Pontes de Tortues Marines à Saint-Martin, Bilan de la Campagne 2012*. (D) RNN de Saint-Martin. 2012. *Suivi des Pontes de Tortues Marines à Saint-Martin, Bilan de la Campagne 2012*. (E) RNN de Saint-Martin. 2014. *Suivi des Pontes de Tortues Marines à Saint-Martin, Bilan de la Campagne 2013*. (F) RNN de Saint-Martin. 2015. *Suivi des Pontes de Tortues Marines à Saint-Martin: Saison 2014*. Final report. (G) Chalifour, J. 2015. *Suivi des Tortues Marines en Ponte et en Alimentation: Année 2015*. RNN Saint-Martin. (H) Bousquet, C., and J. Chalifour. 2017. *Suivi des Tortues Marines en Ponte et en Alimentation: Année 2016*. RNN Saint-Martin. (I) Chalifour, J. 2017. *Suivi des Pontes de Tortues Marines à Saint-Martin: Saison 2017*. RNN Saint-Martin. (J) Chalifour, J. 2019. *Suivi des Pontes de Tortues Marines à Saint-Martin: Saison 2018*. RNN Saint-Martin. (K) Eckert, K. L., and A. E. Eckert. 2019. *An Atlas of Sea Turtle Nesting Habitat for the Wider Caribbean Region*. Rev. ed. WIDECAST Technical Report 19, Godfrey, IL.

SWOT Contacts: Julien Chalifour, Réserve Naturelle de Saint-Martin, Claire Saladin, Agence Territoriale de l'Environnement de Saint Barthélemy

SAINT VINCENT AND THE GRENADINES

DATA RECORD: 91

Data Sources: (A) Spatial Database for the Wider Caribbean. (B) Morris, K. 1984. The national report for the country of St. Vincent. In P. Bacon, F. Berry, K. Bjørndal, H. Hirth, L. Ogren, and M. Weberet (eds.), *Proceedings of the Western Atlantic Sea Turtle Symposium*, Vol. 3, pp. 381–385. Miami, FL: University of Miami Press. (C) Scott, N., and J. A. Horrocks. 1993. Sea turtle recovery plan for St. Vincent and the Grenadines. CEP Technical Report No. 27, Caribbean Environment Programme, United Nations Environment Programme. **SWOT Contact:** Lucine Edwards

SAMOA

DATA RECORD: 92*

Data Sources: (A) Momoemausu, M., J. Ward, M. Iakopo, et al. 2006. *Report on the Hawksbill Turtle Nesting Survey 2005–2006*. Division of Environment and Conservation, Ministry of Natural Resources and Environment, Samoa. (B) Ward, J., and I. Asotasi. 2008. *An Assessment of the Current Status of the Hawksbill Turtles (Eretmochelys imbricata) on the Aleipata Islands, 2007–2008*. Division of Environment and Conservation, Ministry of Natural Resources and Environment, Samoa. **SWOT Contacts:** Juney Ward and Malama Momoemausu

SÃO TOMÉ AND PRÍNCIPE

DATA RECORD: 93

Data Source: Bollen, A. 2016. Sea Turtle Conservation Programme of Fundação Príncipe Trust. Personal communication. SWOT Database Online 2016. **SWOT Contact:** An Bollen

DATA RECORD: 94

Data Sources: (A) Ferreira, R., A. Bolten, O. Przeres, and H. R. Martins. 2012. Sea turtle nesting in Príncipe Island. Poster presented at the 32nd International Sea Turtle Symposium, March 11–16, Huatulco, Mexico. (B) Loureiro, N. S. 2010. Personal communication. SWOT Database Online 2010. (C) Monzón-Argüello, C., N. S. Loureiro, C. Delgado, A. Marco, et al. 2011. Príncipe island hawksbills: Genetic isolation of an eastern Atlantic stock. *Journal of Experimental Marine Biology and Ecology* 407 (2): 345–354. **SWOT Contacts:** Nuno de Santos Loureiro and Rogério Ferreira

DATA RECORD: 95

Data Sources: (A) Association for the Research, Protection, and Conservation of Sea Turtles in Lusophone Countries (ATM). 2012–13. *Sea Turtle Conservation Project of the Island of Príncipe*. Nontechnical report. (B) ATM and Marapa. 2015–16. *Tatô Program: Sea Turtle Conservation Project of the Island of São Tomé*. Technical report. (C) Hancock, J., and H. Lima. 2012. Personal communication. SWOT Database Online 2017. (D) Vieira, S., H. Lima, J. Hancock, et al. 2015. Personal communication. SWOT Database Online 2017. **SWOT Contact:** Sara Vieira

SAUDI ARABIA

DATA RECORD: 96

Data Sources: (A) Miller, J. D. 2021. Saudi Arabia. In A. D. Phillott and A. F. Rees (eds.), *Sea Turtles in the Middle East and South Asia Region: MTSG Annual Regional Report 2021*. IUCN-SSC Marine Turtle Specialist Group. (B) Pilcher, N. J. 1999. The hawksbill turtle, *Eretmochelys imbricata*, in the Arabian Gulf. *Chelonian Conservation and Biology* 3 (2): 312–317. **SWOT Contact:** Nicolas Pilcher

SENEGAL

DATA RECORD: 97

Data Source: Fretey, J. 2001. Biogeography and conservation of marine turtles of the Atlantic Coast of Africa. CMS Technical Publication No. 6. United Nations Environment Programme, Convention on Migratory Species Secretariat, Bonn, Germany. **SWOT Contact:** Jacques Fretey

SEYCHELLES

DATA RECORD: 98

Data Source: Marques, C., T. Godding, M. J. Schulze, et al. 2020. Hawksbill turtle nesting on Cousine Island, Seychelles. Personal communication. In *SWOT Report—State of the World's Sea Turtles*, vol. XVII (2022). **SWOT Contacts:** Christina Marques, Tammy Godding, Melissa Schulze, Sean Evans

DATA RECORD: 99

Data Sources: (A) French, G., and D. Monthy. 2010. Personal communication. In *SWOT Report—State of the World's Sea Turtles*, vol. VI (2011). (B) Mathiot, M., and E. Talma. 2009. Personal communication. SWOT Database Online 2010. (C) Stiponovich, J., and E. Talma. 2009. Personal communication. SWOT Database Online 2010. (D) Talma, E., and R. Matombe. 2008. Personal communication. SWOT Database Online 2010. **SWOT Contacts:** Devis Monthy, Georgia French, Elke Talma, and Joanna Bluemel

DATA RECORD: 100

Data Source: Derand, G.-D. 2008. Nature Seychelles. Unpublished data. Personal communication. SWOT Database Online 2009. **SWOT Contact:** Gilles-David Derand

DATA RECORD: 101

Data Source: (A) Allen, Z. C., N. J. Shah, A. Grant, et al. 2010. Hawksbill turtle monitoring in Cousin Island Special Reserve, Seychelles: an eight-fold increase in annual nesting numbers. *Endangered Species Research* 11: 195–200. (B) Burt, A. J., N. Dunn, C. Mason-Parker, et al. 2015. Curieuse National Park, Seychelles: critical management needs for protection of an important nesting habitat. *Marine Turtle Newsletter* 147: 6–11. (C) Mortimer, J. A., J.-C. Camille, and N. Boniface. 2011. Seasonality and status of nesting hawksbill (*Eretmochelys imbricata*) and green turtles (*Chelonia mydas*) at D'Arros Island, Amirantes Group, Seychelles. *Chelonian Conservation and Biology*, 10: 26–33. (D) Mortimer, J. A., N. Esteban, A. N. Guzman, et al. 2020. Estimates of marine turtle nesting populations in the south-west Indian Ocean indicate the importance of the Chagos Archipelago. *Oryx* 54(3): 332–343. (E) Mortimer, J. A. 1984. *Marine Turtles in the Republic of Seychelles: Status and Management*. Publication of IUCN Conservation Library: Gland, Switzerland.

(F) Mortimer, J.A. 1998. *Turtle & Tortoise Conservation Project J1: Environmental Management Plan of the Seychelles*. Final report to the Republic of Seychelles Ministry of Environment and the Global Environment Facility (GEF). January 1998. Vols. 1 and 2.

(G) Mortimer, J. A. 2004. *Seychelles Marine Ecosystem Management Project (SEYMEMP): Turtle Component*. Final Report. Vols. 1 and 2. (H) Mortimer, J. A. 2017. *Community Monitoring of Nesting Sea Turtles at D'Arros and St. Joseph, Seychelles: Turtle Track Count Analysis for 13 Seasons (2004–05 to 2016–17)*. Unpublished report. Save Our Seas Foundation, Switzerland. (I) Mortimer, J.A. 2020. *Final Report: Alphonse Group Nesting Turtles*. Unpublished report to GOS-UNDP-GEF Outer Island Project. (J) Mortimer, J. A. 2020. *Final Report: Desroches Atoll Nesting Turtles*. Unpublished report to GOS-UNDP-GEF Outer Island Project. (K) Mortimer, J. A. 2020. *Final Report: Farquhar Atoll Nesting Turtles*. Unpublished report to GOS-UNDP-GEF Outer Island Project. (L) Mortimer, J.A. 2020. *Final Report: Poivre Atoll Nesting Turtles*. Unpublished report to GOS-UNDP-GEF Outer Island Project.

SWOT Contacts: Alphonse Foundation, Bird Island Lodge, Constance Lémuria Resort, D'Arros Research Centre (DRC) / Save Our Seas Foundation (SOSF), Denis Is Private Desroches Foundation, Farquhar Foundation, Fregate Is Private, Global Vision International Seychelles (GVI), Green Island Foundation, Island Conservation Society (ICS), Marine Conservation Society Seychelles (MCSS), Nature Seychelles, North Island, Platte Island Foundation, Poivre Foundation, Seychelles Islands Foundation (SIF), Seychelles Ministry of Agriculture, Climate Change and Environment (MACCE), Seychelles Parks & Gardens Authority (SPGA), Silhouette Foundation, and WiseOceans

DATA RECORD: 102

Data Sources: (A) Nature Protection Trust of Seychelles. 2009. 2008–2009 *Silhouette Conservation Project: Quarterly Report*. Unpublished report. (B) Nature Protection Trust of Seychelles. 2010. 2009–2010 *Silhouette Conservation Project: Quarterly Report*. Unpublished report. (C) Vanherck, L. 2008. Hawksbill nesting on North Island, Seychelles. Personal communication. In *SWOT Report—State of the World's Sea Turtles*, vol. III (2008). **SWOT Contacts:** Justin Gerlach, Linda Vanherck, and Javier Cotin

SINT EUSTATIUS

DATA RECORD: 103

Data Sources: (A) Berkel, J. 2010. *St. Eustatius National Parks Foundation Sea Turtle Conservation Program Annual Report 2009*. Galloway Bay, St. Eustatius. (B) Esteban, N., and J. Berkel. 2009. Personal communication. In *SWOT Report—State of the World's Sea Turtles*, vol. V (2010). (C) Berkel, J. 2013. St. Eustatius National Parks Foundation Sea Turtle Conservation Program. Personal communication. SWOT Database Online 2015. (D) Berkel, J. 2014. St. Eustatius National Parks Foundation Sea Turtle Conservation Program. Personal communication. SWOT Database Online 2015. (E) Spatial Database for the Wider Caribbean. **SWOT Contacts:** Arturo Herrera, Nicole Esteban, and Jessica Berkel

SINT MAARTEN

DATA RECORD: 104

Data Sources: (A) Spatial Database for the Wider Caribbean. (B) Nisbeth, B. M., and the Nature Foundation. 2008. Hawksbill nesting in Gibbs Bay, St. Maarten. In *SWOT Report—State of the World's Sea Turtles*, vol. III (2008). (C) Vissenberg, D., and the Nature Foundation. 2008. Hawksbill nesting in Guana Bay, St. Maarten. In *SWOT Report—State of the World's Sea Turtles*, vol. III (2008). **SWOT Contacts:** Dominique Vissenberg, Tadzio Bervoets, and Beverly Mae Nisbeth

SOLOMON ISLANDS

DATA RECORD: 105

Data Source: Siota, C., and P. Ramohia. 2007. *Peak Hawksbill Nesting Activities in the Arnava Community Marine Conservation Area: A Report for The Nature Conservancy*. Solomon Islands Field Office, Honiara. **SWOT Contacts:** Catherine Siota and Peter Ramohia

SRI LANKA

DATA RECORD: 106

Data Sources: (A) Ekanayake, E. M. L., K. B. Ranawana, T. Kapurusinghe, et al. 2002. Marine turtle conservation in Rekawa turtle rookery in southern Sri Lanka. *Ceylon Journal of Science (Biological Science)* 30: 79–88. (B) Jayathilaka, R. A. M., H. A. C. C. Perera, and S. S. K. and Haputhanthri. 2017. Marine turtles of Sri Lanka; status, issues, threats and conservation strategies. *Working Party on Ecosystems and Bycatch (WPEB)* 1: 13–36. (C) Kapurusinghe, T. 2006. Status and conservation of marine turtles in Sri Lanka. In K. Shanker and B. C. Choudhury (eds.), *Marine Turtles of the Indian Subcontinent*, pp. 173–187. Hyderabad, India: Universities Press. (D) Rajakarun, R. S., L. Ekanayake, and P. A. C. N. B. Suraweera. Sri Lanka. 2021. In A. D. Phillott and A. F. Rees (eds.), *Sea Turtles in the Middle East and South Asia Region: MTSG Annual Regional Report 2021*. IUCN-SSC Marine Turtle Specialist Group.

ST. BARTHÉLÉMY, FRANCE

DATA RECORD: 107

Data Sources: (A) Agence Territoriale de l'Environnement de Saint Barthélemy. *Rapport de Suivi des Pontes de Tortues Imbriquées (Eretmochelys imbricata), 2012–2021 de Saint Barthélemy*. (B) Eckert, K. L., and A. E. Eckert. 2019. *An Atlas of Sea Turtle Nesting Habitat for the Wider Caribbean Region*. Rev. ed. WIDECAST Technical Report No. 19, Godfrey, IL. **SWOT Contact:** Karl Questel, Agence Territoriale de l'Environnement de Saint Barthélemy and Claire Saladin, Agence Territoriale de l'Environnement de Saint Barthélemy

SUDAN

DATA RECORD: 108

Data Source: El Mahdi, A.-R. The marine turtle in the Republic of Sudan: Their biology and conservation. In *SWOT Report—State of the World's Sea Turtles*, vol. XVII (2022). **SWOT Contact:** Abdel-Rahman El Mahdi

SURINAME

DATA RECORD: 109

Data Sources: (A) Mitro, S. 2005. Country report of Suriname. In *Proceedings of the Seventh Sea Turtle Symposium for the Guianas (October 25–27, 2004)*. Georgetown, Guyana. (B) De Dijn, B. 2003. Country report of Suriname: Marine turtle season 2002. In I. Nolivos, L. Kelle, B. De Thoisy, and S. Lochoon (eds.), *Proceedings of the Sixth Sea Turtle Symposium for the Guianas*, pp. 8–10. Remire-Montjoly, French Guiana. **SWOT Contacts:** Edo Goverse and Maartje Hilterman

TAIWAN, REPUBLIC OF CHINA

DATA RECORD: 110

Data Sources: (A) Cheng, I.-J. 1995. Sea turtles at Dungsha Tao, South China Sea. *Marine Turtle Newsletter* 70: 13–14. (B) Cheng, I.-J. 1996. Sea turtles at Taipin Tao, South China Sea. *Marine Turtle Newsletter* 75: 6–8. (C) Liang, W.-L., J.-L. Dai, C.-W. Liu, et al. 1990. *The Investigation of Sea Turtle Resources in the South China Sea, and the Development of the Artificial Hatching Techniques for Sea Turtles: Report on the Conservation Situations of South Sea Turtle Resources*. Bureau of Agriculture, Guangdong Province, China. **SWOT Contact:** I. Jiunn Cheng

TANZANIA

DATA RECORD: 111

Data Sources: (A) Joynson Hicks, C., and L. West. 2017. Sea turtle nesting in Tanzania. Personal communication. In *SWOT Report—State of the World’s Sea Turtles*, vol. XII (2017). (B) Muir, C. 2008. Hawksbill nesting in Tanzania. Personal communication. In *SWOT Report—State of the World’s Sea Turtles*, vol. III (2008). **SWOT Contacts:** Catharine Joynson Hicks, Lindsey West, and Catherine Muir

THAILAND

DATA RECORD: 112

Data Source: Charuchinda, M., and S. Monanunsap. 1998. Monitoring survey on sea turtle nesting in the Inner Gulf of Thailand, 1994–1996. *Thailand Marine Fisheries Research Bulletin* 6: 17–25.

TRINIDAD AND TOBAGO

DATA RECORD: 113

Data Sources: (A) Spatial Database for the Wider Caribbean. (B) Fournillier, K., and K. L. Eckert. 1998. *Draft WIDECASST Sea Turtle Recovery Action Plan for Trinidad and Tobago*. United Nations Caribbean Environment Programme, Kingston, Jamaica. (C) Livingstone, S. R. 2006. *Sea Turtle Ecology and Conservation on the North Coast of Trinidad*. PhD dissertation, University of Glasgow, Scotland. **SWOT Contacts:** Dennis Sammy, Scott Eckert, Stephen Poon, Grande Riviere Environmental Trust, Toco Foundation, Pat Turpin, Tanya Clovis, North East Sea Turtles (NEST), Heather Pepe, Thakoorie Boodoo, and Suzanne Livingstone

DATA RECORD: 114

Data Source: Walker, G. 2013. *An Update on Sea Turtle Nesting in the Northeast of Tobago*. Unpublished report. **SWOT Contact:** Grant Walker

TURKS AND CAICOS ISLANDS

DATA RECORD: 115*

Data Sources: (A) Spatial Database for the Wider Caribbean. (B) Siota, C., and P. Ramohia. 2007. *Peak Hawksbill Nesting Activities in the Arnavon Community Marine Conservation Area: A Report for The Nature Conservancy*. Solomon Islands Field Office, Honiara. **SWOT Contacts:** Judith Garland-Campbell, Lorna Slade

UNITED ARAB EMIRATES

DATA RECORD: 116

Data Sources: (A) Al Ameri, H. M., H. S. Das, C. J. Rodriguez-Zarate, and M. Antonopoulou. United Arab Emirates. 2021. In A. D. Phillott and A. F. Rees (eds.), *Sea Turtles in the Middle East and South Asia Region: MTSG Annual Regional Report 2021*. IUCN-SSC Marine Turtle Specialist Group. (B) Emirates Marine Environmental Group. Personal communication. In *SWOT Report—State of the World’s Sea Turtles*, vol. XVII (2022). (C) Emirates Marine Environmental Group. Personal communication. SWOT Database Online 2013. **SWOT Contact:** Laurence Vanneyre

UNITED STATES

DATA RECORD: 117

Data Source: Florida Fish and Wildlife Conservation Commission, Fish and Wildlife Research Institute. 2015. *Statewide Atlas of Sea Turtle Nesting Occurrence and Density*. <http://myfwc.com/research/wildlife/sea-turtles/nesting/nesting-atlas/> **SWOT Contacts:** Florida Fish and Wildlife Conservation Commission and Anne Meylan

DATA RECORD: 118

Data Source: Finn, S., W. P. Thompson, B. M. Shamblin, and C. J. Nairn. 2016. Northernmost records of hawksbill sea turtle nests and possible trans-Atlantic colonization event. *Marine Turtle Newsletter* 151: 27–30. **SWOT Contacts:** Matthew Godfrey, Sarah Finn, William Thompson, and Brian Shamblin

DATA RECORD: 119

Data Sources: (A) Parker, D., G. H. Balazs, M. King, W. Seitz, et al. 2015. *Map Guide to Hawaiian Marine Turtle Nesting and Basking*. www.GeorgeHBalazs.com. (B) Parker, D. M., G. H. Balazs, C. S. King, et al. 2009. Short-range movements of hawksbill turtles (*Eretmochelys imbricata*) from nesting to foraging areas within the Hawaiian Islands. *Pacific Science* 63 (3): 371–382. **SWOT Contacts:** George Balazs and Denise Parker

VANUATU

DATA RECORD: 120

Data Sources: (A) Fletcher, M. 2008. Personal communication. SWOT Database Online 2010. (B) Wan Smolbag, G. P. 2008. Personal communication. SWOT Database Online 2009. **SWOT Contacts:** Michelle Fletcher and George Petro

VENEZUELA

DATA RECORD: 121

Data Sources: (A) Spatial Database for the Wider Caribbean. (B) Espinoza, R., P. Vernet, L. Moran, et al. 2013. Primer reporte de la actividad de anidación de tortugas marinas en la costa nor-occidental del Golfo de Venezuela. *Boletín del Centro Investigaciones Biológicas* 47 (1): 86–95. (C) Guada, H. 2008. Hawksbill nesting in Venezuela. Personal communication. In *SWOT Report—State of the World’s Sea Turtles*, vol. III (2008). (D) Guada, H. J., and G. Solé. 2000. *WIDECASST Plan de Acción para la Recuperación de las Tortugas Marinas de Venezuela*. Informe Técnico del PAC No. 39. United Nations Environment Programme, Caribbean Environment Programme, Kingston, Jamaica. (E) Guada, H. J. 2000. *Áreas de Anidación e Impactos Hacia las Tortugas Marinas en la Península de Paría y Lineamientos de Protección*. M. thesis, Universidad Simón Bolívar, Sartenejas. (F) Rodríguez-Baron, J. M.. 2015. Personal communication. In *SWOT Report—State of the World’s Sea Turtles*, vol. XI (2016). (G) Quijada, A., and C. Balladares. 2004. Conservación de las tortugas marinas en el Golfo de Paría. In R. Babarro, A. Sanz, and B. Mora (eds.), *Tortugas Marinas en Venezuela: Acciones para Su Conservación*, pp. 47–54. Oficina Nacional

de Diversidad Biológica and Fondo Editorial Fundambiente Caracas.

SWOT Contacts: Hedelvy Guada, Clemente Balladares, Juan Manuel Rodríguez-Baron, Kelvin García Sanabria, Héctor Barrios-Garrido, Vincent Vera, and Juan Carlos Figuera

VIETNAM AND SPRATLY ISLANDS

DATA RECORD: 122*

Data Source: Hamann, M., C. The Cuong, N. Duy Hong, et al. 2006. Distribution and abundance of marine turtles in the Socialist Republic of Viet Nam. *Biodiversity and Conservation* 15: 3703–3720.

VIRGIN ISLANDS, BRITISH

DATA RECORD: 123

Data Sources: (A) Spatial Database for the Wider Caribbean. (B) Eckert, K. L., J. A. Overing, and B. B. Lettsome. 1992. *Sea Turtle Recovery Action Plan for the British Virgin Islands*. CEP Technical Report No. 15, Caribbean Environment Programme, Kingston, Jamaica. **SWOT Contacts:** Bertrand Lettsome, Shannon Gore, Mervin Hastings, Joel Dore, and Arlington Pickering

VIRGIN ISLANDS, UNITED STATES

DATA RECORD: 124

Data Sources: (A) Buck Island Sea Turtle Research Program, National Park Service. 2016. Hawksbill nesting at Buck Island Reef National Monument, St. Croix, U.S. Virgin Islands. SWOT Database Online 2017. (B) Spatial Database for the Wider Caribbean. (C) Mackay, A. L. 2005. *Sea Turtle Monitoring Program the East End Beaches of St. Croix, U.S. Virgin Islands, 2005*. West Indies Marine Animal Research and Conservation Service, St. Croix. (D) Virgin Islands National Park (VINP) Sea Turtle Program. Personal communication. In *SWOT Report—State of the World’s Sea Turtles*, vol. XVII (2022). **SWOT Contacts:** Clayton Pollock, Steve Garner, Rafe Boulon, U.S. Virgin Islands Division of Fish and Wildlife, Adren Anderson, Willow Melamet, and VINP Sea Turtle Program

Hawksbill Telemetry Data Citations

The following data records refer to satellite telemetry datasets from tags that were deployed on hawksbill turtles worldwide. These records were combined to create the map on p. 27. The data are organized by country of deployment. For information regarding data processing and filtering, see the note on the map on p. 27. These data were generously contributed to SWOT by the people and partners listed subsequently. Records that have a SWOT ID can be viewed in detail in the SWOT online database and mapping application at <http://seamap.env.duke.edu/swot>, which contains additional information about the projects and their methodologies.

To save space, we have used the following abbreviations in the data source fields: (1) “STAT” refers to Coyne, M. S., and B. J. Godley. 2005. Satellite Tracking and Analysis Tool (STAT): An integrated system for archiving, analyzing, and mapping animal tracking data. *Marine Ecology Progress Series* 301: 1–7. (2) “SWOT Online Database” refers to Kot, C. Y., E. Fujioka, A. DiMatteo, B. P. Wallace, B. J. Hutchinson, J. Cleary, P. N. Halpin, and R. B. Mast. 2015. The State of the World’s Sea Turtles Online Database. Data provided by the SWOT Team and hosted on OBIS-SEAMAP. Oceanic Society, IUCN Marine Turtle Specialist Group, and Marine Geospatial Ecology Lab, Duke University. <http://seamap.env.duke.edu/swot>. (3) “OBIS-SEAMAP” refers to Halpin, P. N., A. J. Read, E. Fujioka, B. D. Best, B. Donnelly, L. J. Hazen, C. Kot, K. Urian, E. LaBrecque, A. DiMatteo, J. Cleary, C. Good, L. B. Crowder, and K. D. Hyrenbach. 2009. OBIS-SEAMAP: The world data center for marine mammal, sea bird, and sea turtle distributions. *Oceanography* 22 (2): 104–115. When listed, these sources indicate that the dataset was contributed online through STAT, SWOT, or OBIS-SEAMAP.

AUSTRALIA

DATA RECORD 1 | SWOT ID: 8043

Project Title: Post Rehabilitation Success of Marine Turtles
Metadata: 1 juvenile, rehabilitated and released *E. imbricata*
Data Sources: (A) Gilbert, J. 2021. Post rehabilitation success of marine turtles. Data downloaded from OBIS-SEAMAP (<http://seamap.env.duke.edu/dataset/644>) on March 15, 2022, and originated from STAT (http://www.seaturtle.org/tracking/index.shtml?project_id=501). (B) STAT. (C) SWOT Online Database. (D) OBIS-SEAMAP.

SWOT Contact: James Cook University, Cairns

DATA RECORD 2

Project Title: Hawksbills Tracked in Northern Australia
Metadata: 2 adult female *E. imbricata* and 1 adult *E. imbricata* of undetermined sex
Data Sources: (A) Hoenner, X., S. D. Whiting, M. A. Hindell, and C. R. McMahon. 2012. Enhancing the use of Argos satellite data for home range and long distance migration studies of marine animals. *PLoS One* 7 (7): e40713. (B) Hoenner, X., S. D. Whiting, M. Hamann, and C. J. Limpus. 2015. High-resolution movements of critically

endangered hawksbill turtles help elucidate conservation requirements in northern Australia. *Marine and Freshwater Research* 67 (8): 1263–1278. **SWOT Contact:** Scott Whiting and Xavier Hoenner

BARBADOS

DATA RECORD 3

Project Title: Post-nesting Hawksbills Tracked from Barbados
Metadata: 7 postnesting female *E. imbricata*
Data Source: Horrocks, J. A., and D. C. B. Browne. Unpublished hawksbill turtle tracks

from Barbados (2004–2018). Personal communication. In *SWOT Report—State of the World’s Sea Turtles*, vol. XVII (2022).

SWOT Contact: Julia Horrocks

BELIZE

DATA RECORD 4 | SWOT ID: 18281

Project Title: Hope: Hawksbill Hope and Marymount University
Metadata: 28 adult *E. imbricata*
Data Sources: (A) Rimkus, T. 2022. Hope: Hawksbill Hope and Marymount University. Data downloaded from OBIS-SEAMAP (<http://seamap.env.duke.edu/dataset/769>) on

March 15, 2022, and originated from STAT (http://www.seaturtle.org/tracking/index.shtml?project_id=655). (B) STAT. (C) SWOT Online Database. (D) OBIS-SEAMAP. **SWOT Contact:** Todd Rimkus

BONAIRE

DATA RECORD 5 | SWOT ID: 4808

Project Title: Sea Turtle Tracking in Bonaire, 2003–2011

Metadata: Postnesting female *E. imbricata*

Data Sources: (A) Nava, M. 2013. Sea turtle tracking in Bonaire, 2003–2011. Data downloaded from OBIS-SEAMAP (<http://seamap.env.duke.edu/dataset/753>) on March 15, 2022. (B) STAT. (C) SWOT Online Database. (D) OBIS-SEAMAP.

SWOT Contact: Mabel Nava

DATA RECORD 6 | SWOT ID: 7784

Project Title: Satellite Tracking of Three Species of Sea Turtles on Bonaire

Metadata: 11 adult *E. imbricata*

Data Sources: (A) Nava, M. 2021. Satellite tracking of three species of sea turtles on Bonaire. Data downloaded from OBIS-SEAMAP (<http://seamap.env.duke.edu/dataset/879>) on March 15, 2022, and originated from STAT (http://www.seaturtle.org/tracking/index.shtml?project_id=798). (B) STAT. (C) SWOT Online Database. (D) OBIS-SEAMAP.

SWOT Contact: Sea Turtle Conservation Bonaire

BRAZIL

DATA RECORD 7 | SWOT ID: 16079

Project Title: Study of the Biology of Sea Turtles in Brazil through Satellite Telemetry

Metadata: 15 adult *E. imbricata*

Data Sources: (A) Projeto TAMAR. 2021. Study of the Biology of Sea Turtles in Brazil through Satellite Telemetry. Data downloaded from OBIS-SEAMAP (<http://seamap.env.duke.edu/dataset/984>) on March 15, 2022, and originated from STAT (http://www.seaturtle.org/tracking/index.shtml?project_id=63). (B) STAT. (C) SWOT Online Database. (D) OBIS-SEAMAP.

SWOT Contact: Projeto TAMAR

CHAGOS

DATA RECORD 8

Project Title: Travel Routes to Remote Ocean Targets Reveal the Map Sense Resolution for a Marine Migrant

Metadata: 22 postnesting female *E. imbricata*

Data Source: Hays, G. C., N. Atchison-Balmond, G. Cerritelli, J.-O. Laloë, P. Luschi, J. A. Mortimer, A. Rattray, and N. Esteban. 2022. Travel routes to remote ocean targets reveal the map sense resolution for a marine migrant. *Journal of the Royal Society Interface* 19 (190): 2021.0859. <https://doi.org/10.1098/rsif.2021.0859>

SWOT Contacts: Graeme Hays, Nadine Atchison-Balmond, Giulia Cerritelli, Jacques-Olivier Laloë, Paolo Luschi, Jeanne A. Mortimer, Alex Rattray, and Nicole Esteban

DATA RECORD 9

Project Title: Hawksbill/Green Turtles, Chagos Archipelago, Western Indian Ocean

Metadata: 21 juvenile *E. imbricata*

Data Sources: (A) Hays, G. C., J. A. Mortimer, A. Rattray, T. Shimada, and N. Esteban. 2021. High accuracy tracking reveals how small conservation areas can protect marine megafauna. *Ecological Applications* 31 (7): e02418. <https://doi.org/10.1002/eap.2418>. (B) Hays, G. C., J. A. Mortimer, A. Rattray, T. Shimada, and N. Esteban. 2021. Data from High accuracy tracking reveals how small conservation areas can protect marine megafauna. Movebank Data Repository. <https://doi.org/10.5441/0011.r72ph75f>.

SWOT Contacts: Graeme Hays, Nicole Esteban, Jeanne Mortimer, and Alex Rattray

CHINA

DATA RECORD 10

Project Title: Hawksbills Tracked in China

Metadata: 1 *E. imbricata*

Data Sources: Parker, D. 2013. Hawksbills tracked in China. Personal communication.

In *SWOT Report—State of the World's Sea Turtles*, vol. XVII (2022).

SWOT Contact: Denise Parker

COLOMBIA

DATA RECORD 11

Project Title: Hawksbill Tracked From Gorgona, Colombia

Metadata: 1 female and 1 male *E. imbricata*

Data Source: Amorcho, D. 2013. Hawksbill tracked from Gorgona, Colombia. Personal communication. In *SWOT Report—State of the World's Sea Turtles*, vol. XVII (2022).

SWOT Contact: Diego Amorcho

DATA RECORD 12 | SWOT ID: 1724

Project Title: Caribbean Colombian Sea Turtle Satellite Tracking

Metadata: 1 adult, 1 subadult, and 3 juvenile *E. imbricata*

Data Sources: (A) Sea Turtles and Marine Mammal Conservation Program (ProCTMM). 2021. Caribbean Colombian sea turtle satellite tracking. Data downloaded from OBIS-SEAMAP (<http://seamap.env.duke.edu/dataset/1292>) on March 15, 2022, and originated from STAT (http://www.seaturtle.org/tracking/index.shtml?project_id=471). (B) STAT. (C) SWOT Online Database. (D) OBIS-SEAMAP.

SWOT Contact: ProCTMM

DATA RECORD 13 | SWOT ID: 4351

Project Title: World Wide Fund for Nature (WWF) Sea Turtle Satellite Tracking in Latin America and the Caribbean

Metadata: *E. imbricata*

Data Sources: (A) Amorcho, D. 2021. WWF sea turtle satellite tracking in Latin America and the Caribbean. Data downloaded from OBIS-SEAMAP (<http://seamap.env.duke.edu/dataset/1306>) on March 15, 2022, and originated from STAT (http://www.seaturtle.org/tracking/index.shtml?project_id=791). (B) STAT. (C) SWOT Online Database. (D) OBIS-SEAMAP.

SWOT Contact: Research Center for Environmental Management and Development (CIMAD)

COSTA RICA

DATA RECORD 14

Project Title: Hawksbills Tracked in Costa Rica

Metadata: 2 *E. imbricata*

Data Source: Tortuguero National Park and World Wide Fund for Nature. 2022. Hawksbills tracked in Tortuguero National Park, Costa Rica. Personal communication. In *SWOT Report—State of the World's Sea Turtles*, vol. XVII (2022).

SWOT Contact: Tortuguero National Park, WWF, and Denise Parker

DATA RECORD 15 | SWOT ID: 91

Project Title: Cocos Island Monitoring and Research (C-MAR) Project

Metadata: 1 juvenile *E. imbricata*

Data Source: (A) Arauz, R. 2021. C-MAR project. Data downloaded from OBIS-SEAMAP (<http://seamap.env.duke.edu/dataset/1086>) on March 15, 2022, and originated from STAT (http://www.seaturtle.org/tracking/index.shtml?project_id=953). (B) STAT. (C) SWOT Online Database. (D) OBIS-SEAMAP.

SWOT Contact: Pretoma

CUBA

DATA RECORD 16

Project Title: Hawksbill Turtles from the Cuban Shelf

Metadata: 13 *E. imbricata*

Data Source: Moncada, F. G., L. A. Hawkes, M. R. Fish, B. J. Godley, et al. 2012. Patterns of dispersal of hawksbill turtles from the Cuban shelf inform scale of conservation and management. *Biological Conservation* 148 (1): 191–199.

SWOT Contact: Félix Guillermo Moncada Gavilán

DOMINICA

DATA RECORD 17 | SWOT ID: 5708

Project Title: Sea Turtles of Dominica

Metadata: 2 juvenile *E. imbricata*

Data Sources: (A) Levenson, J. 2021. Sea Turtles of Dominica. Data downloaded from OBIS-SEAMAP (<http://seamap.env.duke.edu/dataset/890>) on March 15, 2022, and originated from STAT (http://www.seaturtle.org/tracking/index.shtml?project_id=773). (B) STAT. (C) SWOT Online Database. (D) OBIS-SEAMAP.

SWOT Contact: Jacob Levenson

DOMINICAN REPUBLIC

DATA RECORD 18 | SWOT ID: 6684

Project Title: Dominican Republic 2008: Hawksbill Turtles

Metadata: 4 adult *E. imbricata*

Data Sources: (A) Hawkes, L. A., J. Tomás, O. Revuelta, Y. M. León, J. M. Blumenthal, A. C. Broderick, M. Fish, J. A. Raga, M. J. Witt, and B. J. Godley. 2012. Migratory patterns in hawksbill turtles described by satellite tracking. *Marine Ecology Progress Series* 461: 223–232. (B) Revuelta, O., L. Hawkes, Y. M. León, B. J. Godley, J. A. Raga, and J. Tomás. 2015. Evaluating the importance of Marine Protected Areas for the conservation of hawksbill turtles (*E. imbricata*) nesting in the Dominican Republic. *Endangered Species Research* 27: 169–180. (C) Tomás, J. 2021. Dominican Republic 2008: hawksbill turtles. Data downloaded from OBIS-SEAMAP (<http://seamap.env.duke.edu/dataset/1905>) on March 15, 2022, and originated from STAT (http://www.seaturtle.org/tracking/index.shtml?project_id=301). (B) STAT. (C) SWOT Online Database. (D) OBIS-SEAMAP.

SWOT Contact: Marine Turtle Research Group

ÎLES ÉPARSES

DATA RECORD 19

Project Title: Movements of Postnesting Hawksbill Turtle Satellite-Tracked from Juan de Nova, Éparses Islands, under the Southwest Indian Ocean Fisheries Project (SWIOFP) and Run Sea Science Project

Metadata: 1 adult female *E. imbricata*

Data Source: Ballorain, K., A. Barat, C. Jean, M. Nivière, and C. Gobeaut. 2022. *TlMOI: Tortues Imbriquées de l'Océan Indien—Comprendre la Connectivité des Populations; Résultats préliminaires, Mai 2022*. Technical report of the INTERREG V Indian Ocean project. Centre d'Étude et de Découverte des Tortues Marines (CEDTM), Kelonia.

SWOT Contacts: Manon Nivière, Jeanne Mortimer, Claire Jean, Katia Ballorain, and CEDTM Institut de Recherche pour le Développement

FIJI

DATA RECORD 20

Project Title: Hawksbills Tracked in Fiji

Metadata: 2 *E. imbricata*

Data Source: *SWOT Report—State of the World's Sea Turtles*, vol. XVII (2022).

SWOT Contacts: World Wide Fund for Nature, National Trust of Fiji, Lui Bell, Secretariat of the Pacific Regional Environment Programme, University of the South Pacific, Aisake Batibasaga, DFMFF, Mamanuca Environment Society, National Oceanic and Atmospheric Administration, Denise Parker, and George H. Balazs

FRENCH POLYNESIA

DATA RECORD 21

Project Title: Hawksbills Tracked in French Polynesia

Metadata: 1 *E. imbricata*

Data Sources: Gaspar, C., D. Parker, and G. H. Balazs. 2012. Hawksbills tracked in French Polynesia. Personal communication. In *SWOT Report—State of the World's Sea Turtles*, vol. XVII (2022).

SWOT Contacts: Te Mana o Te Moana, Cecil Gaspar, Department of Environment, National Oceanic and Atmospheric Administration, Denise Parker, and George H. Balazs

GUAM

DATA RECORD 22

Project Title: Hawksbills in Guam

Data Sources: Gaos, A., M. Martin, and J. Seminoff. Hawksbills in Guam. Personal

communication. In *SWOT Report—State of the World's Sea Turtles*, vol. XVII (2022).

SWOT Contacts: Alexander Gaos, Summer Martin, Jeffrey Seminoff, and National Oceanic and Atmospheric Administration Pacific Islands Fisheries Science Center and Southwest Fisheries Science Center

JAMAICA AND ANTIGUA

DATA RECORD 23

Project Title: Hawksbills Tracked from Antigua and Jamaica

Metadata: 8 *E. imbricata*

Data Source: Maurer, A. S., C. Dawson, R. Bjorkland, A. Donaldson, S. P. Stapleton, J. I. Richardson, D. M. Parker, G. H. Balazs, and B. A. Schroeder. 2022. Satellite telemetry elucidates migratory pathways and new foraging areas for hawksbill sea turtles, *E. imbricata*, in the Caribbean. *Caribbean Journal of Science* (accepted for publication).

SWOT Contact: Andrew Maurer

KUWAIT

DATA RECORD 24

Project Title: Tracking Hawksbills in Kuwait

Metadata: 4 adult female *E. imbricata*

Data Source: Rees, A. F., N. Papathanasopoulou, and B. J. Godley. 2019. Tracking hawksbills in Kuwait: Contributions to regional behavioral insights. *Chelonian Conservation and Biology* 18 (1): 86–90.

SWOT Contact: ALan Rees

LESSER ANTILLES

DATA RECORD 25

Project Title: Green and Hawksbill Turtles in the Lesser Antilles Demonstrate Behavioural Plasticity in Inter-nesting Behaviour and Post-nesting Migration

Metadata: 2 postnesting female *E. imbricata*

Data Source: Esteban, N., R. van Dam, E. Harrison, A. Herrera, and J. Berkel. 2015. Green and hawksbill turtles in the Lesser Antilles demonstrate behavioural plasticity in inter-nesting behaviour and post-nesting migration. *Marine Biology* 162 (6): 1153–1163. <https://doi.org/10.1007/s00227-015-2656-2>.

SWOT Contacts: Robert van Dam, Emma Harrison, and Arturo Herrero

MEXICO

DATA RECORD 27 | SWOT ID: 794

Project Title: Migratory Patterns of Yucatán Peninsula Hawksbills

Metadata: 6 postnesting adult female

E. imbricata

Data Sources: (A) Cuevas, E. 2021. Migratory patterns of Yucatán Peninsula hawksbills. Data downloaded from OBIS-SEAMAP (<http://seamap.env.duke.edu/dataset/364>) on March 15, 2022, and originated from STAT (http://www.seaturtle.org/tracking/index.shtml?project_id=154). (B) STAT. (C) SWOT Online Database. (D) OBIS-SEAMAP.

SWOT Contact: Eduardo Cuevas

DATA RECORD 28 | SWOT ID: 707

Project Title: Movimiento Migratorio de la Tortuga Carey, Islas del Parque Nacional

Sistem Arrecifal Veracruzano (PNSAV)

Metadata: 3 postnesting female *E. imbricata*

Data Sources: (A) Miron, R. 2021. Movimiento migratorio de la tortuga carey. Islas del PNSAV, Veracruz, Mexico. Data downloaded from OBIS-SEAMAP (<http://seamap.env.duke.edu/dataset/1197>) on March 15, 2022, and originated from STAT (http://www.seaturtle.org/tracking/index.shtml?project_id=1023). (B) STAT. (C) SWOT Online Database. (D) OBIS-SEAMAP.

SWOT Contact: Acuario de Veracruz A.C.

DATA RECORD 29 | SWOT ID: 38505

Project Title: Tortugas Carey en el Pacífico Mexicano.

Metadata: 14 adult, 2 juvenile, and 2 subadult *E. imbricata*

Data Sources: (A) Hart, C. 2022. Tortugas carey en el Pacífico mexicano. Data downloaded from OBIS-SEAMAP (<http://seamap.env.duke.edu/dataset/1002>) on March 15, 2022, and originated from STAT (<http://www.seaturtle.org/tracking/index>

.shtml?project_id=916). (B) STAT. (C) SWOT Online Database. (D) OBIS-SEAMAP.
SWOT Contact: Red Tortuguera A.C.

PALAU

DATA RECORD 30

Project Title: Hawksbills Tracked in Palau
Metadata: 1 *E. imbricata*
Data Source: Secretariat of the Pacific Regional Environment Programme (SPREP) and World Wide Fund for Nature (WWF). 2022. Hawksbills tracked in Palau. Personal communication. In *SWOT Report—State of the World's Sea Turtles*, vol. XVII (2022).
SWOT Contacts: SPREP, WWF, and Denise Parker

PANAMA

DATA RECORD 31

Project Title: Hawksbill Tracked from Panama
Metadata: 1 female *E. imbricata*
Data Source: Amorochio, D. 2013. Hawksbill tracked from Panama. Personal communication. In *SWOT Report—State of the World's Sea Turtles*, vol. XVII (2022).
SWOT Contact: Diego Amorochio

PAPUA NEW GUINEA

DATA RECORD 32

Project Title: Satellite Tracking of Hard-Shell Sea Turtles of Papua New Guinea
Metadata: 3 *E. imbricata*
Data Source: Gearhart, G. 2018. Data from Satellite tracking of hard-shelled sea turtles of Papua New Guinea. Movebank Data Repository.
SWOT Contact: Geoffrey Gearhart

PHILIPPINES

DATA RECORD 33

Project Title: Hawksbills Tracked in the Philippines
Metadata: 2 *E. imbricata*
Data Sources: Philippine Turtle Island Park and D. Parker. 2002. Hawksbills tracked in the Philippines. Personal communication. In *SWOT Report—State of the World's Sea Turtles*, vol. XVII (2022).
SWOT Contacts: Philippine Turtle Island Park and Denise Parker

PUERTO RICO

DATA RECORD 34 | SWOT ID: 2835

Project Title: Understanding the Effects of Climate Change on Caribbean Hawksbill Turtles: Satellite Tracking Hawksbill Migrations
Metadata: 6 adult *E. imbricata*
Data Sources: (A) Drews, L. 2021. Understanding the effects of climate change on Caribbean hawksbill turtles: Satellite tracking hawksbill migrations. Data downloaded from OBIS-SEAMAP (<http://seamap.env.duke.edu/dataset/469>) on March 15, 2022, and originated from STAT (http://www.seaturtle.org/tracking/index.shtml?project_id=291). (B) STAT. (C) SWOT Online Database. (D) OBIS-SEAMAP.
SWOT Contact: WWF

QATAR

DATA RECORD 35 | SWOT ID: 10502

Project Title: Reproductive Biology of Marine Turtles Under Extreme Climatic Conditions
Metadata: 1 adult and 4 juvenile *E. imbricata*
Data Sources: (A) Pilcher, N. 2021. Reproductive Biology of Marine Turtles under Extreme Climatic Conditions. Data downloaded from OBIS-SEAMAP (<http://seamap.env.duke.edu/dataset/1134>) on March 15, 2022, and originated from STAT (<http://www.seaturtle.org/tracking/index>

.shtml?project_id=978). (B) STAT. (C) SWOT Online Database. (D) OBIS-SEAMAP.
SWOT Contact: Marine Research Foundation

SABAH

DATA RECORD 36

Project Title: Hawksbills Tracked in Sabah
Metadata: 3 *E. imbricata*
Data Sources: Pilcher, N. J., J. Bali, J. Buis, et al. 2019. A review of sea turtle satellite tracking in Malaysia. *Indian Ocean Turtle Newsletter* 29: 11–22.
SWOT Contact: Denise Parker

SAMOA

DATA RECORD 37

Project Title: Hawksbills Tracked in Samoa
Metadata: 1 *E. imbricata*
Data Sources: Bell, L., D. Parker, and G. H. Balazs. 2010. Hawksbills tracked in Samoa. Personal communication. In *SWOT Report—State of the World's Sea Turtles*, vol. XVII (2022).
SWOT Contact: Lui Bell, Secretariat of the Pacific Regional Environment Programme, Ministry of Natural Resources, National Oceanic and Atmospheric Administration, Denise Parker, and George H. Balazs

SEYCHELLES

DATA RECORD 38

Project Title: Movements of Post-nesting Hawksbill Turtle Satellite-Tracked from Mahe, Seychelles, under the Marine Conservation Society Seychelles (MCSS) Mahe Seychelles Hawksbill Project
Metadata: 2 adult female *E. imbricata*
Data Sources: (A) Seychelles turtles with MCSS (<http://seychelles-turtles.blogspot.com/>). (B) *TimOI: Tortues Imbriquées de l'Océan Indien—Comprendre la Connectivité des Populations; Résultats préliminaires, Mai 2022*. Technical report of the INTERREG V Indian Ocean project. Centre d'Étude et de Découverte des Tortues Marines (CEDTM), Kelonia
SWOT Contacts: Manon Nivière, Jeanne Mortimer, Claire Jean, Katia Ballorain, MCSS, and CEDTM

DATA RECORD 39

Project Title: Post-nesting Migrations of Hawksbill Turtles in the Granitic Seychelles
Metadata: 5 postnesting female *E. imbricata*
Data Source: Mortimer, J. A., and G. H. Balazs. 2000. Post-nesting migrations of hawksbill turtles in the granitic Seychelles and implications for conservation. In H. Kalb and T. Wibbels (eds.), *Proceedings of the 19th Annual Symposium on Sea Turtle Biology and Conservation*, pp. 22–26. NOAA Technical Memorandum NMFS-SEFSC-443, 291, National Oceanic and Atmospheric Administration, Washington, D.C.
SWOT Contact: Jeanne Mortimer

SINGAPORE

DATA RECORD 40

Project Title: Hawksbills Tracked in Singapore
Metadata: 8 *E. imbricata*
Data Sources: Pending
SWOT Contact: Denise Parker

UNITED ARAB EMIRATES

DATA RECORD 41 | SWOT ID: 10568

Project Title: Gulf Turtle Tracking Project 2010
Metadata: 20 adult *E. imbricata*
Data Sources: (A) Antonopoulou, M. 2021. Gulf Turtle Tracking Project 2010. Data downloaded from OBIS-SEAMAP (<http://seamap.env.duke.edu/dataset/1255>) on March

15, 2022, and originated from STAT (http://www.seaturtle.org/tracking/index.shtml?project_id=658). (B) STAT. (C) SWOT Online Database. (D) OBIS-SEAMAP.
SWOT Contact: Emirates Wildlife Society—WWF

DATA RECORD 42 | SWOT ID: 23710

Project Title: Gulf Turtle Tracking Project 2011
Metadata: 24 adult *E. imbricata*
Data Sources: (A) Antonopoulou, M. 2021. Gulf Turtle Tracking Project 2011. Data downloaded from OBIS-SEAMAP (<http://seamap.env.duke.edu/dataset/1257>) on March 15, 2022, and originated from STAT (http://www.seaturtle.org/tracking/index.shtml?project_id=737). (B) STAT. (C) SWOT Online Database. (D) OBIS-SEAMAP.
SWOT Contact: Emirates Wildlife Society—WWF

DATA RECORD 43 | SWOT ID: 35709

Project Title: Marine Turtle Conservation Project, 2012–2013
Metadata: 36 adult *E. imbricata*
Data Sources: (A) Antonopoulou, M. 2021. Marine Turtle Conservation Project, 2012–2013. Data downloaded from OBIS-SEAMAP (<http://seamap.env.duke.edu/dataset/1282>) on March 15, 2022, and originated from STAT (http://www.seaturtle.org/tracking/index.shtml?project_id=494). (B) STAT. (C) SWOT Online Database. (D) OBIS-SEAMAP.
SWOT Contact: Emirates Wildlife Society—WWF

U.S.A.

DATA RECORD 44

Project Title: Home Range and Movement Patterns of Subadult Hawksbill Sea Turtles in Southeast Florida
Metadata: 6 subadult *E. imbricata*
Data Source: Wood, L. D., B. Brunnick, and S. L. Milton. 2017. Home range and movement patterns of subadult hawksbill sea turtles in Southeast Florida. *Journal of Herpetology* 51 (1): 58–67. <https://doi.org/10.1670/15-133>.
SWOT Contact: Larry Wood

DATA RECORD 45

Project Title: Hawksbills Tracked in Hawaii
Metadata: 11 *E. imbricata*
Data Sources: (A) Parker, D. M., G. H. Balazs, C. S. King, L. Katahira, and W. Gilmartin. 2009. Short-range movements of hawksbill turtles (*E. imbricata*) from nesting to foraging areas within the Hawaiian Islands. *Pacific Science* 63 (3): 371–382. <https://doi.org/10.2984/049.063.0306>. (B) Parker, D. M., C. King, M. Rice, and G. Balazs. 2014. First use of a GPS satellite tag to track a post-nesting hawksbill (*E. imbricata*) in the Hawaiian Islands with an indication of possible mortality. *Marine Turtle Newsletter* 142: 10–13.
SWOT Contact: Denise Parker

DATA RECORD 46

Project Title: Hawksbills in Hawaii
Data Source: Gaos, A., M. Martin, and J. Seminoff. Hawksbills in Hawaii. Personal communication. In *SWOT Report—State of the World's Sea Turtles*, vol. XVII (2022).
SWOT Contact: Alexander Gaos, Summer Martin, Jeffrey Seminoff, and National Oceanic and Atmospheric Administration Pacific Islands Fisheries Science Center and Southwest Fisheries Science Center

VANUATU

DATA RECORD 47

Project Title: Hawksbills Tracked in Vanuatu
Metadata: 1 *E. imbricata*
Data Sources: Parker, D., and G. H. Balazs.

2008. Hawksbills tracked in Vanuatu. Personal communication. In *SWOT Report—State of the World's Sea Turtles*, vol. XVII (2022).
SWOT Contacts: Secretariat of the Pacific Regional Environment Programme, World Wide Fund for Nature, Wan Smolbog Theatre, National Oceanic and Atmospheric Administration, Denise Parker, and George H. Balazs

MULTINATIONAL

DATA RECORD 48

Project Title: Movements of Post-nesting Hawksbill Turtle Satellite-Tracked from the South Western Indian Ocean under INTERREG V Indian Ocean TImOI Project and STORM-IO Project
Metadata: 10 adult female *E. imbricata* from Seychelles, 5 from Madagascar, and 1 from Comoros
Data Sources: Ballorain, K., A. Barat, C. Jean, M. Nivière, and C. Gobeaut. 2022. *TimOI: Tortues Imbriquées de l'Océan Indien—Comprendre la Connectivité des Populations; Résultats préliminaires, Mai 2022*. Technical report of the INTERREG V Indian Ocean project. Centre d'Étude et de Découverte des Tortues Marines (CEDTM), Kelonia.
SWOT Contacts: Manon Nivière, Jeanne Mortimer, Claire Jean, Katia Ballorain, CEDTM, Marine Conservation Society Seychelles, Island Biodiversity and Conservation Center at Seychelles University, Seychelles Parks and Gardens Authority, Wildlife Conservation Society, Institut Halieutique et des Sciences Marines de l'Université de Toliara, Madagascar National Parks, Time+Tide Foundation, Laboratoire de l'Atmosphère et des Cyclones de l'Université de La Réunion, and Parc National de Mohéli

DATA RECORD 49 | SWOT ID: 15878

Project Title: Iniciativa Carey del Pacífico Oriental (ICAPO) Eastern Pacific Hawksbill Initiative
Metadata: 30 adult, 7 subadult, 6 juvenile *E. imbricata*
Data Sources: (A) Seminoff, J. 2021. ICAPO Eastern Pacific Hawksbill Initiative. Data downloaded from OBIS-SEAMAP (<http://seamap.env.duke.edu/dataset/1336>) on March 15, 2022, and originated from STAT (http://www.seaturtle.org/tracking/index.shtml?project_id=295). (B) STAT. (C) SWOT Online Database. (D) OBIS-SEAMAP.
SWOT Contact: U.S. National Oceanic and Atmospheric Administration Southwest Fisheries Science Center

DATA RECORD 50

Project Title: Movements and Distribution of Hawksbill Turtles in the Eastern Indian Ocean
Metadata: 42 postnesting female *E. imbricata* tagged in Australia and Timor-Leste
Data Source: Fossette, S., L. C. Ferreira, S. D. Whiting, J. King, et al. Movements and distribution of hawksbill turtles in the eastern Indian Ocean. *Global Ecology and Conservation* 29: e01713.
SWOT Contacts: Sabrina Fossette, Tony Tucker, Scott Whiting, Michele Thums, Luciana Ferreira, and Kellie Pendoley

DATA RECORD 51

Project Title: Hawksbills Tracked in the East Pacific
Metadata: 1 adult and 4 juvenile *E. imbricata*
Data Source: Gaos, A., M. Martin, and J. Seminoff. Hawksbills Tracked in the East Pacific. Personal communication. In *SWOT Report—State of the World's Sea Turtles*, vol. XVII (2022).
SWOT Contacts: Sabrina Fossette, Tony Tucker, Scott Whiting, Michele Thums, Luciana Ferreira, and Kellie Pendoley

- Bjorndal, K. A., A. B. Bolten, and S. Tröeng. 2005. Population structure and genetic diversity in green turtles nesting at Tortuguero, Costa Rica, based on mitochondrial DNA control region sequences. *Marine Biology* 147 (6): 1449–1457.
- Bourjea, J., S. Lapègue, L. Gagnevin, D. Broderick, et al. 2007. Phylogeography of the green turtle, *Chelonia mydas*, in the Southwest Indian Ocean. *Molecular Ecology* 16 (1): 175–186.
- Bourjea, J., J. A. Mortimer, J. Garnier, G. Okemwa, et al. 2015. Population structure enhances perspectives on regional management of the western Indian Ocean green turtle. *Conservation Genetics* 16 (5): 1069–1083.
- Bowen, B. W., A. B. Meylan, J. P. Ross, C. J. Limpus, et al. 1992. Global population structure and natural history of the green turtle (*Chelonia mydas*) in terms of matriarchal phylogeny. *Evolution*: 46 (4): 865–881.
- Bradshaw, P. J., A. C. Broderick, C. Carreras, W. Fuller, et al. 2018. Defining conservation units with enhanced molecular tools to reveal fine scale structuring among Mediterranean green turtle rookeries. *Biological Conservation* 222: 253–260.
- Chassin-Noria, O., F. A. Abreu-Grobois, P. H. Dutton, and K. Oyama. 2004. Conservation genetics of the East Pacific green turtle (*Chelonia mydas*) in Michoacán, Mexico. *Genetica* 121: 195–206.
- Cheng, I.-J., P. H. Dutton, C.-L. Chen, H.-C. Chen, et al. 2008. Comparison of the genetics and nesting ecology of two green turtle rookeries. *Journal of Zoology* 276 (4): 375–384.
- Dethmers, K. E. M., D. Broderick, C. Moritz, N. N. FitzSimmons, et al. 2006. The genetic structure of Australasian green turtles (*Chelonia mydas*): Exploring the geographical scale of genetic exchange. *Molecular Ecology* 15 (13): 3931–3946.
- Dutton, P. H., M. P. Jensen, A. Frey, E. LaCasella, et al. 2014. Population structure and phylogeography reveal pathways of colonization by a migratory marine reptile (*Chelonia mydas*) in the central and eastern Pacific. *Ecology and Evolution* 4 (22): 4317–4331.
- Dutton, P. H., M. P. Jensen, K. Frutchey, A. Frey, et al. 2014. Genetic stock structure of green turtle (*Chelonia mydas*) nesting populations across the Pacific Islands. *Pacific Science* 68 (4): 451–464.
- Encalada, S. E., P. N. Lahanas, K. A. Bjorndal, A. B. Bolten, et al. 1996. Phylogeography and population structure of the Atlantic and Mediterranean green turtle *Chelonia mydas*: A mitochondrial DNA control region sequence assessment. *Molecular Ecology* 5 (4): 473–483.
- Formia, A., A. C. Broderick, F. Glen, B. J. Godley, et al. 2007. Genetic composition of the Ascension Island green turtle rookery based on mitochondrial DNA: Implications for sampling and diversity. *Endangered Species Research* 3: 145–158.
- Formia, A., B. J. Godley, J.-F. Dontaine, and M. W. Bruford. 2006. Mitochondrial DNA diversity and phylogeography of endangered green turtle (*Chelonia mydas*) populations in Africa. *Conservation Genetics* 7: 353–369.
- Hamabata, T., N. Kamezaki, and T. Hikida. 2014. Genetic structure of green turtle (*Chelonia mydas*) peripheral populations nesting in the northwestern Pacific rookeries: Evidence for northern refugia and postglacial colonization. *Marine Biology* 161 (3): 495–507.
- Hamabata, T., S. Nishida, N. I. Kamezaki, and H. Koike. 2009. Genetic structure of populations of the green turtle (*Chelonia mydas*) in Japan using mtDNA control region sequences. *Bulletin of the Graduate School of Social and Cultural Studies, Kyushu University* 15: 35–50.
- Jensen, M. P., I. P. Bell, C. J. Limpus, M. Hamann, et al. 2016. Spatial and temporal genetic variation among size classes of green turtles (*Chelonia mydas*) provides information on oceanic dispersal and population dynamics. *Marine Ecology Progress Series* 543: 241–256.
- Jordão, J. C., A. C. V. Bonioli, L. F. de Almeida-Toledo, K. Bilo, et al. 2017. Mixed-stock analysis in green turtles *Chelonia mydas*: mtDNA decipher current connections among West Atlantic populations. *Mitochondrial DNA Part A* 28 (2): 197–207.
- Joseph, J., and H. Nishizawa. 2016. Genetic structure and diversity of green turtles (*Chelonia mydas*) from two rookeries in the South China Sea. *Journal of Sustainability Science and Management* 1: 41–47.
- Lahanas, P. N., M. M. Miyamoto, K. A. Bjorndal, and A. B. Bolten. 1994. Molecular evolution and population genetics of Greater Caribbean green turtles (*Chelonia mydas*) as inferred from mitochondrial DNA control region sequences. *Genetica* 94 (1): 57–66.
- Nishizawa, H., O. Abe, J. Okuyama, M. Kobayashi, and N. Arai. 2011. Population genetic structure and implications for natal philopatry of nesting green turtles *Chelonia mydas* in the Yaeyama Islands, Japan. *Endangered Species Research* 14 (2): 141–148.
- Reece, J. S., A. Alansari, H. M. Kalkvick, A. Alkindi, et al. 2016. A survey of the genetic diversity of the loggerhead and green turtles of the Sultanate of Oman. *Bulletin of the Florida Museum of Natural History* 54: 104–117.
- Ruiz-Urquiola, A., F. B. Riverón-Giró, E. Pérez-Bermúdez, F. A. Abreu-Grobois, et al. 2010. Population genetic structure of Greater Caribbean green turtles (*Chelonia mydas*) based on mitochondrial DNA sequences, with an emphasis on rookeries from southwestern Cuba. *Revista de Investigaciones Marinas* 31 (1): 33–52.
- Shamblin, B. M., D. A. Bagley, L. M. Ehrhart, N. A. Desjardin, et al. 2015. Genetic structure of Florida green turtle rookeries as indicated by mitochondrial DNA control region sequences. *Conservation Genetics* 16 (3): 673–685.
- Shamblin, B. M., K. A. Bjorndal, A. B. Bolten, Z. M. Hillis-Starr, et al. 2012. Mitogenomic sequences better resolve stock structure of southern Greater Caribbean green turtle rookeries. *Molecular Ecology* 21 (10): 2330–2340.
- Shamblin, B. M., P. H. Dutton, D. J. Shaver, D. A. Bagley, et al. 2017. Mexican origins for the Texas green turtle foraging aggregation: A cautionary tale of incomplete baselines and poor marker resolution. *Journal of Experimental Marine Biology and Ecology* 488: 111–120.
- Shamblin, B. M., K. M. Hart, K. J. Martin, S. A. Ceriani, et al. 2020. Green turtle mitochondrial microsatellites indicate finer-scale natal homing to isolated islands than to continental nesting sites. *Marine Ecology Progress Series* 643: 159–171.
- Song, J., B. Lin, Y. Jia, P. H. Dutton, et al. 2022. New management unit for conservation of the endangered green turtle *Chelonia mydas* at the Xisha (Paracel) Islands, South China Sea. *Endangered Species Research* 47: 145–154.
- Tikochinski, Y., P. Bradshaw, A. Mastrogiacomio, A. Broderick, et al. 2018. Mitochondrial DNA short tandem repeats unveil hidden population structuring and migration routes of an endangered marine turtle. *Aquatic Conservation: Marine and Freshwater Ecosystems* 28 (4): 788–797.
- Yang, W., Y. Wang, and M. Chen. 2015. Genetic structure and diversity of green sea turtle (*Chelonia mydas*) from South China Sea inferred by mtDNA control region sequence. *Biochemical Systematics and Ecology* 60: 95–98.

LOGGERHEADS

- Bowen, B. W., N. Kamezaki, C. J. Limpus, G. R. Hughes, et al. 1994. Global phylogeography of the loggerhead turtle (*Caretta caretta*) as indicated by mitochondrial DNA haplotypes. *Evolution* 48 (6): 1820–1828.
- Bowen, B. W., A. L. Bass, S.-M. Chow, M. Bostrom, et al. 2004. Natal homing in juvenile loggerhead turtles (*Caretta caretta*). *Molecular Ecology* 13 (12): 3797–3808.
- Boyle, M. C., N. N. FitzSimmons, C. J. Limpus, S. Kelez, et al. 2009. Evidence for transoceanic migrations by loggerhead sea turtles in the southern Pacific Ocean. *Proceedings of the Royal Society B: Biological Sciences* 276 (1664): 1993–1999.
- Carreras, C., M. Pascual, L. Cardona, A. Aguilar, et al. 2007. The genetic structure of the loggerhead sea turtle (*Caretta caretta*) in the Mediterranean as revealed by nuclear and mitochondrial DNA and its conservation implications. *Conservation Genetics* 8 (4): 761–775.
- Chaieb, O., A. El Oauer, F. Maffucci, M. N. Bradai, et al. 2010. Genetic survey of loggerhead turtle *Caretta caretta* nesting population in Tunisia. *Marine Biodiversity Records* 3: e20.
- Clusa, M., C. Carreras, M. Pascual, A. Demetropoulos, et al. 2013. Mitochondrial DNA reveals Pleistocene colonization of the Mediterranean by loggerhead turtles (*Caretta caretta*). *Journal of Experimental Biology and Ecology* 439: 15–24.
- FitzSimmons, N. N., C. Moritz, C. J. Limpus, J. D. Miller, et al. 1996. Comparative genetic structure of green, loggerhead, and flatback populations in Australia based on variable mtDNA and nDNA regions. In B. W. Bowen and W. N. Witzell (eds.), *Proceedings of the International Symposium on Sea Turtle Conservation Genetics*, 25–32. NOAA Technical Memorandum NMFS-SEFSC-396, Washington, D.C.
- National Oceanic and Atmospheric Administration, Washington, D.C.
- Garofalo, L., T. Mingozi, A. Micó, and A. Novelletto. 2009. Loggerhead turtle (*Caretta caretta*) matriline in the Mediterranean: Further evidence of genetic diversity and connectivity. *Marine Biology* 156 (10): 2085–2095.
- Hatase, H., M. Kinoshita, T. Bando, N. Kamezaki, et al. 2002. Population structure of loggerhead turtles, *Caretta caretta*, nesting in Japan: Bottlenecks on the Pacific population. *Marine Biology* 141 (2): 299–305.
- Matsuzawa, Y., N. Kamezaki, T. Ishihara, K. Omuta, et al. 2016. Fine scale genetic population structure of loggerhead turtles in the Northwest Pacific. *Endangered Species Research* 30 (1): 83–93.
- Monzón-Argüello, C., C. Rico, E. Naro-Maciel, N. Varo-Cruz, et al. 2010. Population structure and conservation implications for the loggerhead sea turtle of the Cape Verde Islands. *Conservation Genetics* 11 (5): 1871–1884.
- Reis, E. C., L. S. Soares, S. M. Vargas, F. R. Santos, et al. 2010. Genetic composition, population structure, and phylogeography of the loggerhead sea turtle: Colonization hypothesis for the Brazilian rookeries. *Conservation Genetics* 11 (4): 1467–1477.
- Ruiz-Urquiola, A., M. Vega, F. B. Riverón, F. A. Abreu-Grobois, et al. 2008. Estructura genética de poblaciones de *Caretta caretta* en el Gran Caribe y la costa Atlántica de Estados Unidos, con énfasis en colonias de anidación del suroeste cubano. *Revistas de Investigación Marina* 29: 151–160.
- Saied, A., F. Maffucci, S. Hochscheid, S. Dryag, et al. 2012. Loggerhead turtles nesting in Libya: An important management unit for the Mediterranean stock. *Marine Ecology Progress Series* 450: 207–218.
- Shamblin, B. M., M. G. Dodd, D. A. Bagley, L. M. Ehrhart, et al. 2011. Genetic structure of the southeastern United States loggerhead turtle nesting aggregation: Evidence of additional structure within the peninsular Florida recovery unit. *Marine Biology* 158 (3): 1–17.
- Shamblin, B. M., A. B. Bolten, K. A. Bjorndal, P. H. Dutton, et al. 2012. Expanded mitochondrial control region sequences increase resolution of stock structure among North Atlantic loggerhead turtle rookeries. *Marine Ecology Progress Series* 469: 145–160.
- Shamblin, B. M., A. B. Bolten, F. A. Abreu-Grobois, K. B. Bjorndal, et al. 2014. Geographic patterns of genetic variation in a broadly distributed marine vertebrate: New insights into loggerhead turtle stock structure from expanded mitochondrial DNA sequences. *PLoS ONE* 9 (1): e85956.
- Watanabe, K. K., H. Hatase, M. Kinoshita, K. Omuta, et al. 2011. Populations structure of the loggerhead turtle, *Caretta caretta*, a large marine carnivore that exhibits alternative foraging behaviors. *Marine Ecology Progress Series* 424: 273–283.
- Yılmaz, C., O. Türkozan, and F. Bardakçı. 2011. Genetic structure of loggerhead turtle (*Caretta caretta*) populations in Turkey. *Biochemical Systematics and Ecology* 39 (4–6): 266–276.

Cabo Verde Loggerhead Nesting Citations

Loggerhead nesting data for the map on p. 9 were generously shared via personal communication by the following data providers:

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Investigadores de Cabo Verde, **São Nicolau**
 Zofia Radwan, Direção Nacional do Ambiente, **Cabo Verde**

Sea Turtle Toxicology Sampling Overview

Data Citations

The dataset for the toxins map on pp. 12–13 was created using the data from Cortés-Gómez, Romero, and Girondot (2017). In addition, data from the following publications were added to the original dataset for this map.

- Abdallah, M. A. M. 2011. Bioaccumulation of toxic metals in loggerhead turtles from Mediterranean Sea coast, Egypt. In: E. Özhan (ed.), *Proceedings of the 10th International Conference on the Mediterranean Coastal Environment, Rhodes, Greece*.
- Aguirre, A. A., G. H. Balazs, B. Zimmerman, and F. D. Galey. 1994. Organic contaminants and trace metals in the tissues of green turtles (*Chelonia mydas*) afflicted with fibropapillomas in the Hawaiian Islands. *Marine Pollution Bulletin* 28 (2):109–114.
- Anan, Y., T. Kunito, H. Sakai, and S. Tanabe. 2002. Subcellular distribution of trace elements in the liver of sea turtles. *Marine Pollution Bulletin* 45: 224–229.
- Anan, Y., T. Kunito, I. Watanabe, H. Sakai, and S. Tanabe. 2001. Trace element accumulation in hawksbill turtles (*Eretmochelys imbricata*) and green turtles (*Chelonia mydas*) from Yaeyama Islands, Japan. *Environmental Toxicology and Chemistry* 20 (12): 2802–2814.
- Andreani, G., M. Santoro, S. Cottignoli, M. Fabbri, et al. 2008. Metal distribution and metallothionein in loggerhead (*Caretta caretta*) and green (*Chelonia mydas*) sea turtles. *Science of the Total Environment* 390 (1): 287–294.
- Aymak, C., A. H. Uçar, and S. Ergene. 2021. Distribution of heavy metals in tissues of stranded loggerhead turtles (*Caretta caretta*) on Kazanlı Beach, Turkey. *North-Western Journal of Zoology* 17 (1): 82–91.
- Barbieri, E. 2009. Concentration of heavy metals in tissues of green turtles (*Chelonia mydas*) sampled in the Cananéia Estuary, Brazil. *Brazilian Journal of Oceanography* 57 (3): 243–248.
- Bardales, F. A. L., and M. G. Q. Benavides. 2016. Determinación de concentraciones de metales pesados en sangre de hembras anidantes de tortugas Carey (*Eretmochelys imbricata*) en la Bahía de Jiquilisco, Departamento de Usulután, El Salvador. Bachelor's thesis, Universidad de El Salvador.
- Bezerra, M. F., L. D. Lacerda, B. G. D. Costa, and E. H. S. M. Lima. 2012. Mercury in the sea turtle *Chelonia mydas* (Linnaeus, 1758) from Ceará coast, NE Brazil. *Anais de Academia Brasileira de Ciências* 84 (1): 123–128.
- Bezerra, M. F., L. D. Lacerda, E. H. S. M. Lima, and M. T. D. Melo. 2013. Monitoring mercury in green sea turtles using keratinized carapace fragments (scutes). *Marine Pollution Bulletin* 77 (1–2): 424–427.
- Bezerra, M. F., L. D. Lacerda, C. E. Rezende, M. A. L. Franco, et al. 2015. Food preferences and Hg distribution in *Chelonia mydas* assessed by stable isotopes. *Environmental Pollution* 206: 236–246.
- Camacho, M., J. Orós, and L. D. Boada. 2013. Potential adverse effects of inorganic pollutants on clinical parameters of loggerhead sea turtles (*Caretta caretta*): Results from a nesting colony from Cape Verde, West Africa. *Marine Environmental Research* 92: 15–22.
- Cortés-Gómez, A. A., G. Fuentes-Mascorro, and D. Romero. 2014. Metals and metalloids in whole blood and tissues of olive ridley turtles (*Lepidochelys olivacea*) from La Escobilla Beach (Oaxaca, Mexico). *Marine Pollution Bulletin* 89 (1–2): 367–375.
- Cortés-Gómez, A. A., P. Morcillo, F. A. Guardiola, C. Espinosa, et al. 2018. Molecular oxidative stress markers in olive ridley turtles (*Lepidochelys olivacea*) and their relation to metal concentrations in wild populations. *Environmental Pollution* 233: 156–167.
- Cortés-Gómez, A. A., D. Romero, and M. Girondot. 2017. The current situation of inorganic elements in marine turtles: A general review and meta-analysis. *Environmental Pollution* 229: 567–585.
- Cortés-Gómez, A. A., D. Romero, and M. Girondot. 2018. Carapace asymmetry: A possible biomarker for metal accumulation in adult olive ridleys marine turtles? *Marine Pollution Bulletin* 129 (1): 92–101.
- Cortés-Gómez, A. A., A. Tvarijonavičiute, M. Girondot, F. Tecles, and D. Romero. 2018. Relationship between plasma biochemistry values and metal concentrations in nesting olive ridley sea turtles. *Environmental Science and Pollution Research* 25: 36671–36679.
- Cortés-Gómez, A. A., A. Tvarijonavičiute, M. Teles, R. Cuenca, et al. 2017. p-Nitrophenyl acetate esterase activity and cortisol as biomarkers of metal pollution in blood of olive ridley turtles (*Lepidochelys olivacea*). *Archives of Environmental Contamination and Toxicology* 75(1): 25–36.
- Day, R. D., S. J. Christopher, P. R. Becker, and D. W. Whitaker. 2005. Monitoring mercury in the loggerhead sea turtle, *Caretta caretta*. *Environmental Science and Technology* 39(2): 437–446.
- du Preez, M. 2018. Metallic elements in South African sea turtle and crocodile eggs and eggshells. Master's dissertation, North-West University.
- Dyc, C., A. Covaci, C. Debier, C. Leroy, et al. 2015. Pollutant exposure in green and hawksbill marine turtles from the Caribbean region. *Regional Studies in Marine Science* 2: 158–170.
- Frías-Espéricueta, M. G., J. I. Osuna-López, A. Ruiz-Telles, J. M. Quintero-Alvarez, et al. 2006. Heavy metals in the tissues of the sea turtle *Lepidochelys olivacea* from a nesting site of the Northwest Coast of Mexico. *Bulletin of Environmental Contamination and Toxicology* 77: 179–185.
- García-Fernández, A. J., P. Gómez-Ramírez, E. Martínez-López, A. Hernández-García, et al. 2009. Heavy metals in tissues from loggerhead turtles (*Caretta caretta*) from the southwestern Mediterranean (Spain). *Ecotoxicology and Environmental Safety* 72 (2): 557–563.
- Gardner, S. C., S. L. Fitzgerald, B. A. Vargas, and L. M. Rodríguez. 2006. Heavy metal accumulation in four species of sea turtles from the Baja California Peninsula, Mexico. *Biomaterials* 19: 91–99.
- Guirlet, E., K. Dasb, and M. Girondot. 2008. Maternal transfer of trace elements in leatherback turtles (*Dermodochelys coriacea*) of French Guiana. *Aquatic Toxicology* 88: 267–276.
- Kampalath, R., S. C. Gardner, L. Méndez-Rodríguez, and J. A. Jay. 2006. Total and methylmercury in three species of sea turtles of Baja California Sur. *Marine Pollution Bulletin* 52 (12): 1784–1832.
- Labrada-Martagón, V., P.A.T. Rodríguez, L.C. Méndez-Rodríguez, and T. Zenteno-Savín. 2011. Oxidative stress indicators and chemical contaminants in East Pacific green turtles (*Chelonia mydas*) inhabiting two foraging coastal lagoons in the Baja California Peninsula. *Comparative Biochemistry and Physiology Part C: Toxicology and Pharmacology* 154 (2): 65–75.
- Lam, J. C. W., S. Tanabe, S. K. Chan, E. K. W. Yuen, et al. 2004. Trace element residues in tissues of green turtles (*Chelonia mydas*) from South China waters. *Marine Pollution Bulletin* 48(1–2): 174–182.
- Ley-Quiniónez, C. P., N. A. Rossi-Lafferriere, T. L. Espinoza-Carreón, C. E. Hart, et al. 2017. Associations between trace elements and clinical health parameters in the North Pacific loggerhead sea turtle (*Caretta caretta*) from Baja California Sur, Mexico. *Environmental Science and Pollution Research* 24 (10): 9530–9537.
- Ley-Quiniónez, C. P., A. A. Zavala-Norzagaray, T. L. Espinosa-Carreón, H. Peckham, et al. 2011. Baseline heavy metals and metalloid values in blood of loggerhead turtles (*Caretta caretta*) from Baja California Sur, Mexico. *Marine Pollution Bulletin* 62 (9): 1979–1983.
- Ley-Quiniónez, C. P., A. A. Zavala-Norzagaray, J. G. Rendón-Maldonado, T. L. Espinosa-Carreón, et al. 2013. Selected heavy metals and selenium in the blood of black sea turtle (*Chelonia mydas agassizii*) from Sonora, Mexico. *Bulletin of Environmental Contamination and Toxicology* 91 (6): 645–651.
- Macêdo, G. R., T. B. Tarantino, I. S. Barbosa, T. T. Pires, et al. 2015. Trace elements distribution in hawksbill turtle (*Eretmochelys imbricata*) and green turtle (*Chelonia mydas*) tissues on the northern coast of Bahia, Brazil. *Marine Pollution Bulletin* 94 (1–2): 284–289.
- Páez-Osuna, F., M. F. Calderón-Campuzano, M. F. Soto-Jiménez, and J. Ruelas-Inzunza. 2010. Lead in blood and eggs of the sea turtle, *Lepidochelys olivacea*, from the eastern Pacific: concentration, isotopic composition and maternal transfer. *Marine Pollution Bulletin* 60 (3): 433–439.
- Páez-Osuna, F., M. F. Calderón-Campuzano, M. F. Soto-Jiménez, and J. Ruelas-Inzunza. 2010. Trace metals (Cd, Cu, Ni, and Zn) in blood and eggs of the sea turtle *Lepidochelys olivacea* from a nesting colony of Oaxaca, Mexico. *Archives of Environmental Contamination and Toxicology* 59 (4): 632–641.
- Páez-Osuna, F., M. F. Calderón-Campuzano, M. F. Soto-Jiménez, and J. Ruelas-Inzunza. 2011. Mercury in blood and eggs of the sea turtle *Lepidochelys olivacea* from a nesting colony in Oaxaca, Mexico. *Marine Pollution Bulletin* 62 (6): 1320–1323.
- Pena, F. L. 2018. Quantifying pre-industrial to mid-late 20th century anthropogenic lead, mercury and cadmium pollution in Caribbean marine environments using skeletonized sea turtle remains. Master's thesis, Mississippi State University.
- Prioste, F. E. S. 2016. Detection and quantification of selected inorganic chemical elements in blood and tissue samples from green turtles—*Chelonia mydas* (Linnaeus, 1758)—from the Brazilian coast: Possible correlation with fibropapillomatosis. Doctoral thesis, Universidade de São Paulo.
- Prioste, F. E. S., V. C. O. Souza, M. R. Queiroz, R. G. Chiacchio, et al. 2015. Chemical element concentrations in the blood of green turtles (*Chelonia mydas*) captured at Fernando de Noronha Marine National Park, Brazil. *Journal of Environmental and Analytical Toxicology* 5: 1–5.
- Rodríguez, C. A. B. 2017. Mercúrio e metal mercúrio em carapaça da tartaruga marinha *Caretta caretta* (Linnaeus, 1758), no nordeste do Brasil, e seu uso potencial em monitoramento ambiental. Dissertation, Universidade Federal do Ceará.
- Rodríguez, C. A. B., M. F. Bezerra, and L. D. Lacerda. 2018. Use of carapace for monitoring mercury in two species of sea turtles in northeast of Brazil. *Arquivos de Ciências do Mar* 51 (1): 93–100.
- Roe, J. H., N. S. Sill, M. R. Columbia, et al. 2011. Trace metals in eggs and hatchlings of Pacific leatherback turtles (*Dermodochelys coriacea*) nesting at Playa Grande, Costa Rica. *Chelonian Conservation and Biology* 10 (1): 3–9.
- Ross, D. A., H. M. Guzmán, C. Potvin, and V. J. van Hinsberg. 2017. A review of toxic metal contamination in marine turtle tissues and its implications for human health. *Regional Studies in Marine Science* 15: 1–9.
- Ross, D. A., H. M. Guzmán, V. J. van Hinsberg, and C. Potvin. 2016. Metal contents of marine turtle eggs (*Chelonia mydas*; *Lepidochelys olivacea*) from the tropical eastern Pacific and the implications for human health. *Journal of Environmental Science and Health, Part B* 51 (10): 1–13.
- Sakai, H., K. Saeki, H. Ichihashi, H. Suganuma, et al. 2000. Species-specific distribution of heavy metals in tissues and organs of loggerhead turtle (*Caretta caretta*) and green turtle (*Chelonia mydas*) from Japanese Coastal Waters. *Marine Pollution Bulletin* 40 (8): 701–709.
- Silva, C. C., R. D. Klein, I. F. Barcarolli, and A. Bianchini. 2016. Metal contamination as a possible etiology of fibropapillomatosis in juvenile female green sea turtles *Chelonia mydas* from the southern Atlantic Ocean. *Aquatic Toxicology* 170: 42–51.
- Silva, C. C., A. S. Varela, I. B. Barcarolli, and A. Bianchini. 2014. Concentrations and distributions of metals in tissues of stranded green sea turtles (*Chelonia mydas*) from the southern Atlantic coast of Brazil. *Science of the Total Environment* 466–467: 109–118.
- Silva, L. M. 2011. Metais pesados em tecidos de *Chelonia mydas* enalhadas no litoral do Rio Grande do Sul, Brasil. Bachelor's thesis, Universidade Federal do Rio Grande do Sul.
- Simões, T. N. 2016. Metais pesados em sedimento, cascas de ovos e sangue de tartarugas marinhas da espécie *Eretmochelys imbricata* (Linnaeus, 1766). Dissertation, Universidade Federal de Pernambuco.
- Storelli, M. M., A. Storelli, R. D'Addabbo, C. Marano, et al. 2005. Trace elements in loggerhead turtles (*Caretta caretta*) from the eastern Mediterranean Sea: Overview and evaluation. *Environmental Pollution* 135 (1): 163–70.
- Talavera-Saenz, A., S. C. Gardner, R. R. Rodríguez, and B. A. Vargas. 2007. Metal profiles used as environmental markers of green turtle (*Chelonia mydas*) foraging resources. *Science of the Total Environment* 373: 94–102.
- Tauer, A. M., M. J. Liles, S. Chavarría, M. Valle, et al. 2017. Hematology, biochemistry, and toxicology of wild hawksbill turtles (*Eretmochelys imbricata*) nesting in mangrove estuaries in the eastern Pacific Ocean. *BioRxiv*: 238956.
- Vazquez, G. F., M. C. Reyes, G. Fernández, J. E. C. Aguayo, and V. K. Sharma. 1997. Contamination in marine turtle (*Dermodochelys coriacea*) egg shells of Playón de Mexiquillo, Michoacán, Mexico. *Bulletin of Environmental Contamination and Toxicology* 58: 326–333.
- Zavala-Norzagaray, A. A., C. P. Ley-Quiniónez, T. L. Espinosa-Carreón, A. Canizalez, et al. 2014. Trace elements in blood of sea turtles *Lepidochelys olivacea* in the Gulf of California, Mexico. *Bulletin of Environmental Contamination and Toxicology* 93: 536–541.